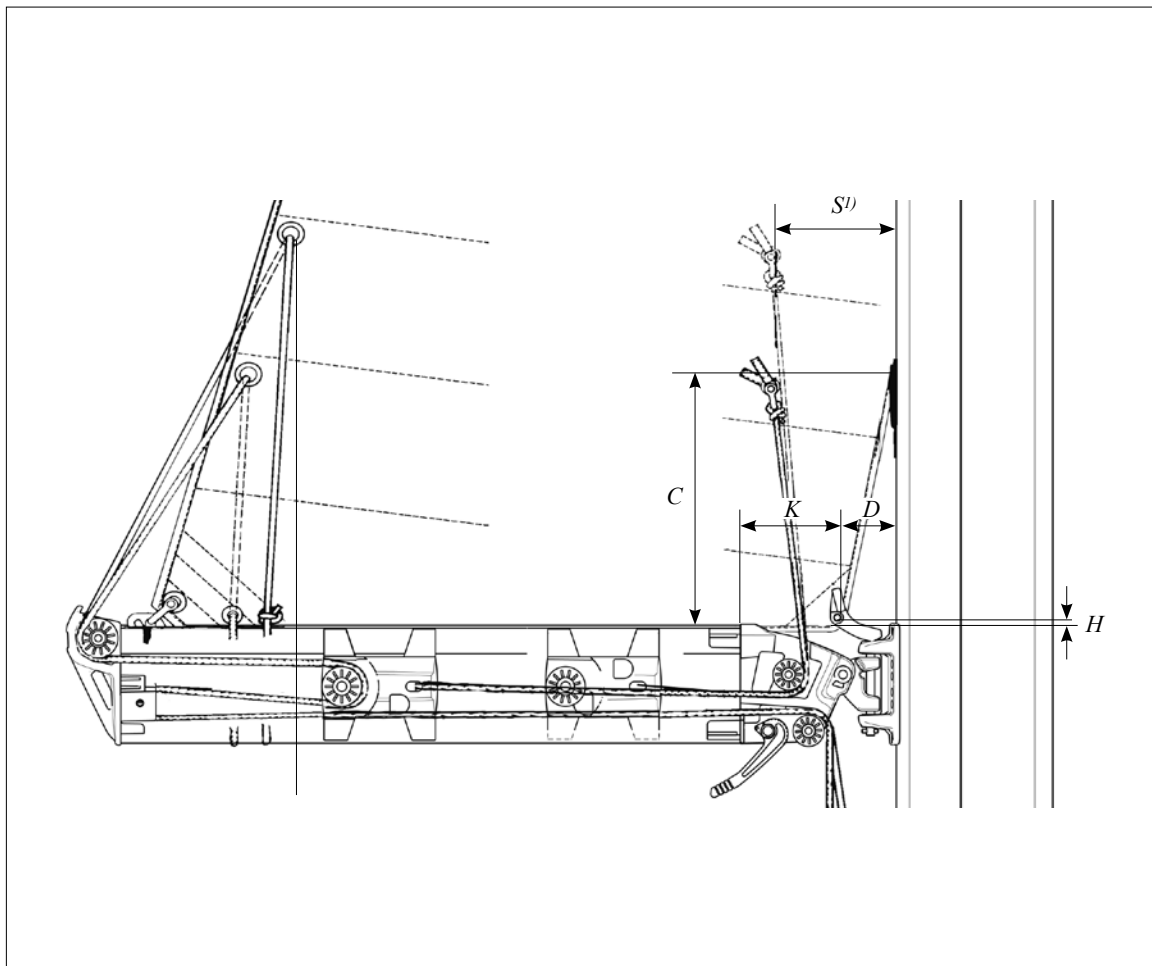


Sailmaker's guide

Everything a sailmaker needs to know about
Seldén masts, booms and furling systems.



1 Introduction

This guide is intended to provide sailmakers with the information necessary for them to ensure that rig and sail will be compatible. It covers the major part of Seldén's production from 1977 onwards. The information generally applies to Kemp products of the same period.

Masts between 1977 and 2002 are normally type D or E (conventional masts) or type R (furling mast). Masts from 2003 are type C (conventional masts) or type F (furling masts). With the introduction of new C- and F masts from 2017, these masts are now denoted C (2003), C (2017), F (2003), F (2017). Each section of the guide is marked with mast type to help the reader in locating the correct information.

- D** D and E-sections: Conventional masts, 1977 - 2002
- R** R-sections: Furling masts, 1989 - 2002
- C** C-sections: Conventional masts, 2003 → & 2017 →
- F** F-sections: Furling masts, 2003 → & 2017 →

Although this Guide is primarily aimed at Sailmakers, the content should assist our end customers in making the best use of our improved product.

However, we would point out that this guide is only intended as an aid, and that variations can occur. It is the sailmaker's responsibility to ensure that the sail suits the rig.

This information will be up-dated as new products are introduced. Seldén reserves the right to change the specifications given without prior notice.

		The following information must be given to the sailmaker by the customer:
Mainsails	Conventional mainsail with "short" battens.	• Mast section dimensions. • Boom section dimensions. • Sail Plan ("P" & "E").
	Conventional mainsail with full length battens.	• Mast section dimensions. • Boom section dimensions. • Sail Plan ("P" & "E").
	Furling mast mainsails	• Mast section dimensions. • Boom section dimensions. • Reefing system type (Seldén furling, Furlex-Main, etc.)
Foresails	Roller furling genoas.	• Furlex type. • Total forestay length incl. all toggles or available sail space • Sail Plan

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2 Conventional masts

2.1 Mast sections

Mast section measurements are given as follows:

Section Length/Section Width (i.e. 170/115). Take note of the mast section shape. This will help identification and the use of correct measurements. The Section Length of the mast can usually be found in the number engraved at the mast heel. For example K23-170-1233.

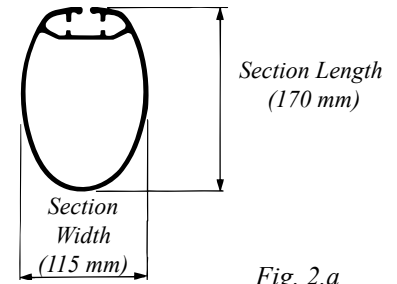
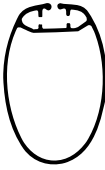
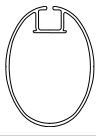



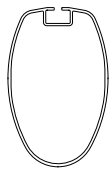



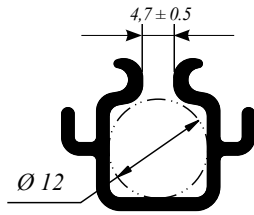
Fig. 2.a

Conventional masts before 2003				Conventional masts from 2003							
	Mast	Luff Groove mm	Slider		Mast	Mast dim	Luff groove mm	Groove insert for bolt rope ¹⁾	MDS-car	Sail slider	Bolt rope (mm)
E-Section (10° aft face) 	122/85 130/93	4.0 ^{+ 1.0} - 0.0	511-601	C-Section (2006) 	C080 C086 C096	79/60 87/64 96/69	4.5 ± 0.75	-	-	511-601	Ø 10
	138/95 155/104 170/115 177/124 189/132 206/139 224/150 237/162 274/185	5.5 ± 0.75	511-602 or 511-603		C106 C116 C126 C139	106/71 116/75 126/79 139/85	5.0 ± 0.75	-	-	511-602	Ø 10
E-Section (Round aft face) 	126/85	4.0 ^{+ 1.0} - 0.0	511-601	C-Section (2003) 	C156 C175 C193	156/87 175/93 193/102	10 ± 0.75	5.5 ± 0.75	511-702	511-605 or 511-607	Ø 10
	147/95 162/104 178/115 216/139 239/162	5.5 ± 0.75	511-602 or 511-603		C211 C227 C245 C264 C285 C304	211/110 227/119 245/127 264/136 285/147 304/157	10 ± 0.75	5.5 ± 0.75	511-701 or 511-702	511-605 or 511-607	Ø 10
D-Section 	109/88 121/92	4.0 ^{+ 1.0} - 0.0	511-601	C section (2017) 	C321 C365	321/171 365/194	16 ± 0.75	-	511-730 or 511-731	-	-
	129/100 137/113 146/112 160/132	5.5 ± 0.75	511-602 or 511-603		C137 C153 C180 C192 C208 C225 C242 C261 C280	137/98 153/107 180/113 192/120 208/131 225/141 242/153 261/164 280/176	10.5 +0.7 10.5 +0.7 10.5 +0.7 10.5 +0.7 10.5 +0.7 10.5 +0.7 10.5 +0.7 10.5 +0.7 10.5 +0.7	4.7 +0.5 4.7 +0.5 4.7 +0.5 4.7 +0.5 4.7 +0.5 4.7 +0.5 4.7 +0.5 4.7 +0.5 4.7 +0.5	511-729 or 511-760	511-605 or 511-607	Ø8-Ø10 Ø8-Ø10 Ø8-Ø10 Ø8-Ø10 Ø8-Ø10 Ø8-Ø10 Ø8-Ø10 Ø8-Ø10 Ø8-Ø10
P-Section 	73/53 90/65 100/73 111/81 123/90	4.0 ^{+ 0.75} - 0.00	611-601								
	137/100 152/111 169/123 188/137	4.5 ^{+ 0.75} - 0.00 5.5 ± 0.75	511-601 or 511-603								

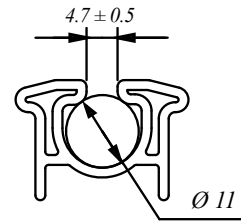
¹⁾ Special groove insert and sail feeder gate are required to accept bolt rope. If sail slider are to be used in combination with bolt rope insert, use HA 258/A019 or Rutgerson 102.

²⁾ Recommended Bolt rope diameter Ø 10 mm.

C

Groove insert for bolt rope**C (2003) size C156-C304**

Recommended bolt rope: Ø10mm

C (2017) size C137-C280

Recommended bolt rope: Ø8mm

E & C

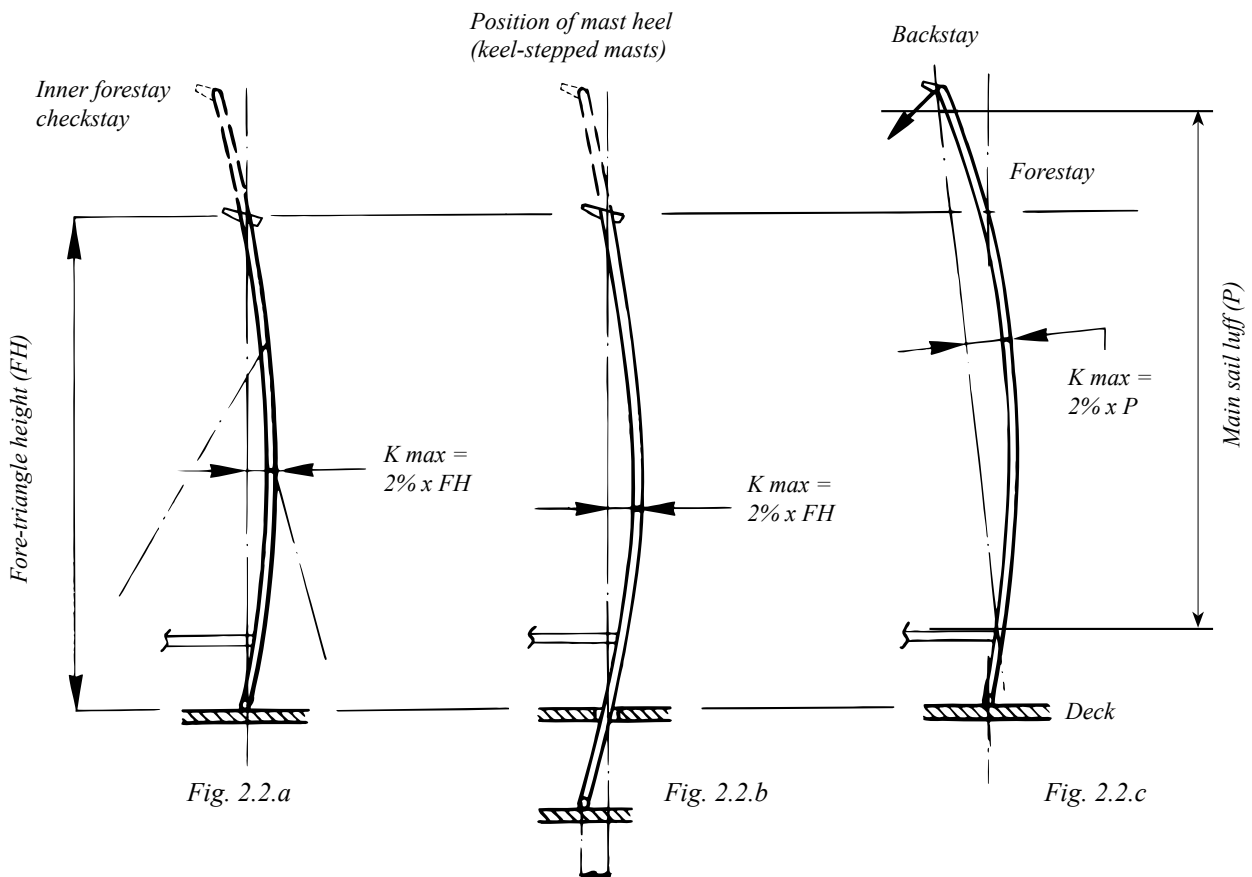
2.2 Mast deflection curves

Our spars and fittings are designed to cope with a maximum longitudinal deflection of 2% of the fore-triangle height (FH). On fractional rigs the maximum deflection can be taken as being 2% of the mainsail luff (P). These values are guiding principles only.

The conditions are:

- 1) The mast forms an even curve (convex front) from deck level to mast-head.
- 2) The deflection must be kept within the stated values, even in rough seas, by suitable longitudinal staying.

The deflection curve is formed by:



It may be possible to increase the above values on some masts. However, in such cases the customer must request a special calculation for this from Seldén Mast, and have our written agreement for the increase in deflection depth.

2.3 Head measurements, Yacht masts

See page 38-41 for furling mast and page 42-43 for Furlex Main - Retro-fit system.

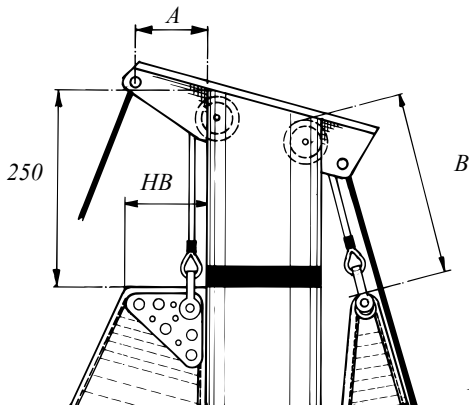


Fig. 2.3.a

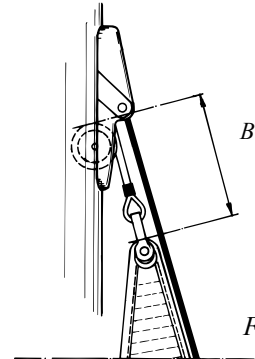


Fig. 2.3.b

A (mm)				
C-mast			E-mast	
	Mast-head	Fractional std/long crane	Tapered std/long crane	
C156	70	80/280	80/270	"A" = 75-100 mm. (With non-tapered fractional rigs using section D-109/88 or E-122/85 the measurement is 25 mm
C175	105	115/280	85/295	
C193	100	100/265	75/200	
C211	110	115/235	105/240	
C227	110	100/220	90/225	
C245	115	120/285	110/210	
C264	110	100/265	65/95	
C285	100	130	90/120	
C304	175	110	80/110	
C321	175	140/190	110	
C365	240	155	110	

To avoid the halyard splice or Talurit damaging the mast-head sheave, dimension "B" must not be shorter than that shown.

When choosing the "B" measurement, consideration must be taken to dimension HB and the mainsail roach in relation to the backstay.

For other halyard boxes the "B" measurement is calculated from the upper edge of the sheave to the topmost point of the sail.

Rope halyard			Wire halyard		
Rope Dimension	"B" mm Knot	"B" mm Spliced	Halyard Wire Dimension	"B" mm Hand-Spliced Halyard Eye	"B" mm Talurit-Spliced Halyard Eye
Ø 6 mm	60	430	Ø 3 mm	200	140
Ø 8 mm	70	430	Ø 4 mm	230	150
Ø 10 mm	80	430	Ø 5 mm	260	170
Ø 12 mm	90	440	Ø 6 mm	300	200
Ø 14 mm	100	440	Ø 7 mm	350	230
			Ø 8 mm	400	250

C

2.4 Head measurements, keelboat

See page 38-41 for furling mast and page 42-43 for Furlex Main - Retro-fit system.

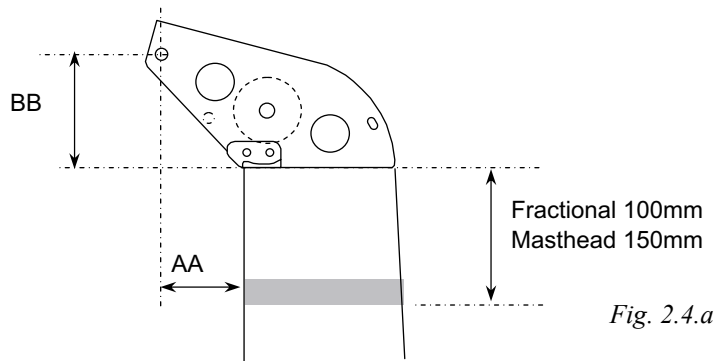


Fig. 2.4.a

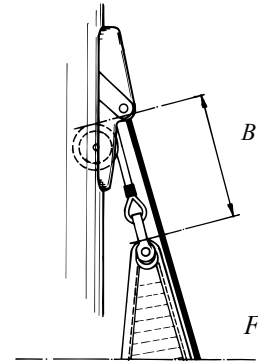


Fig. 2.4.b

Section	Masthead		Fractional						
	AA	Non tapered mast		Tapered mast					
		AA	BB	Standard crane		Long crane		Top with spin block	
AA	BB	AA	BB	AA	BB	AA	BB	AA	BB
C087	-	65	75	58	65	149	90	99	75
C096	-	56	75	52	65	143	90	93	75
C106	-	80	85	70	70	180	100	105	80
C116	-	70	85	63	70	173	100	99	80
C126	70	95	90	83	85	212	120	127	100
C139	65	82	90	74	85	203	120	118	100

Rope halyard		
Rope Dimension	"B" mm Knot	"B" mm Spliced
Ø 5 mm	60	430
Ø 6 mm	60	430
Ø 8 mm	70	430
Ø 10 mm	80	430
Ø 12 mm	90	440
Ø 14 mm	100	440

To avoid the halyard splice or Talurit damaging the mast-head sheave, dimension "B" must not be shorter than that shown.

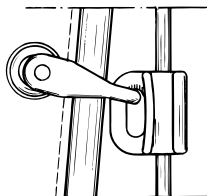
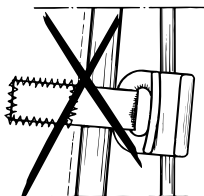
For other halyard boxes the "B" measurement is calculated from the upper edge of the sheave to the topmost point of the sail.

3 Mainsails

D & E

3.1 Fitting slides

To avoid jamming in the luff groove, slides must have freedom of movement on the sail.

C
Fig. 3.1.a

Correct: Free-moving fixture
Fig. 3.1.b

Wrong: Stiff fixture

Several systems are available for full length battens. Seldén's different systems (RCB, MDS, OWS & IWS) are presented in this guide. Refer to the relevant manufacturers concerning other systems.

D & E

3.2 Sail slides E-masts

It is imperative that the correct sliders are used on Seldén masts in order to fit the Seldén sail feeder gate.

Art. no.	Slider (mm)	Fits luff groove (mm)	Breaking load	Bainbridge part no.
511-601		4	700 N (70Kp)	A 013
511-602		5	2250 N (225Kp)	A 014
511-603		5.5	4000 N (400 Kp)	A 015

C

3.3 Sail slides C-masts

It is imperative that Seldén slides are used on Seldén masts in order to fit the Seldén sail feeder gate.

Art. no.	Slider (mm)	Fits luff groove (mm)	Breaking load (N)	Bainbridge part no.
511-605		10	2250 N (225 Kp)	A011
511-607		10	4000 N (400 Kp)	A012

1) For Mast sections, see page 11 and 13.

D & E

3.4 Shackles for sliders

C

Art. no.	Shackle (mm)	Fits slide (mm)	Breaking load (N)	Bainbridge part no.
307-094-01		511-602 511-603 511-605 511-607	2000N (200 Kp)	-



Important!
The shackle should not be used with MDS cars.

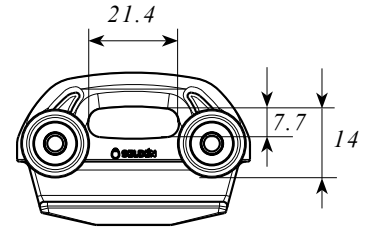
D & E

3.5 OWS (Outer Wheel Support) slider

+Other brands

Seldén OWS sliders are designed both as batten sliders and webbing sliders. Each model is available in 5 different versions. One version fits Seldén E-sections (1977-2002) and older Seldén/Kemp oval sections. Any of the other 4 versions fits most of all other mast brands on the market.

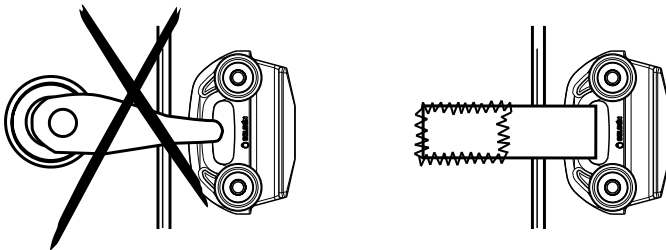
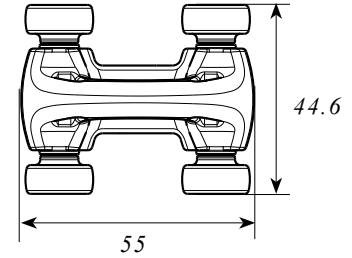
OWS sliders do not fit Seldén C-section for which MDS-sliders should be used.



OWS slider for webbing

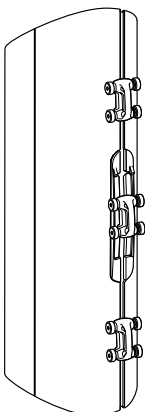
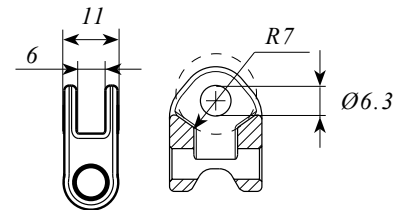
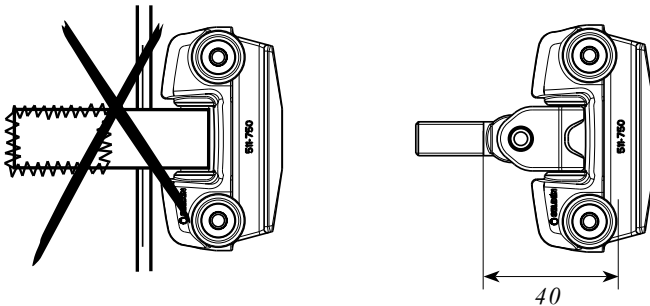
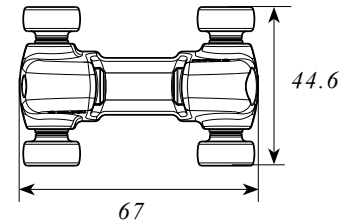
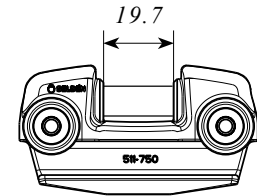
To achieve maximum strength, the OWS slider should be attached to the main sail using a webbing strap.

All sliders for webbing can be used for headboard attachments and as intermediate sliders.



OWS slider for batten

The OWS batten slider is designed to take compression load from the batten in a full batten main sail. To achieve optimal function and strength, use Seldén toggle M10 stud 511-739-01.

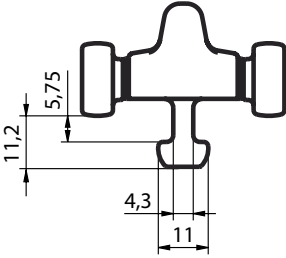
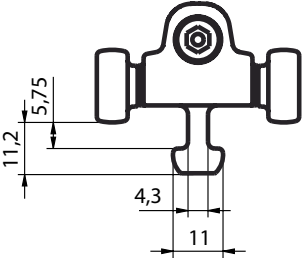
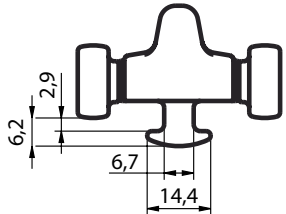
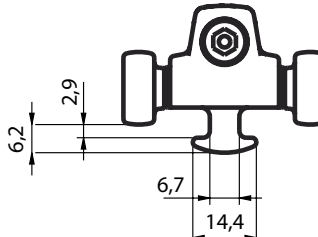
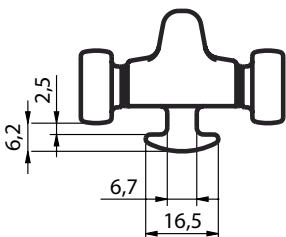
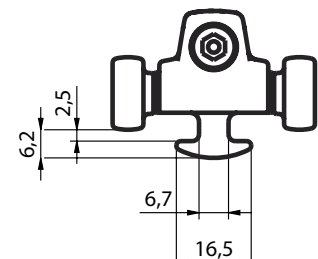
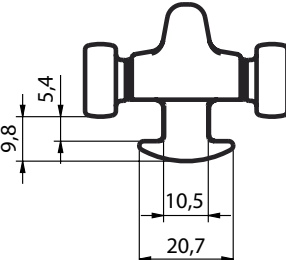
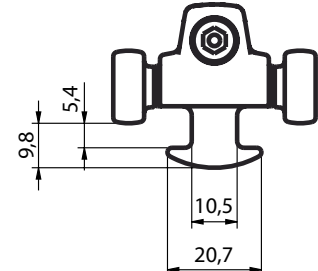
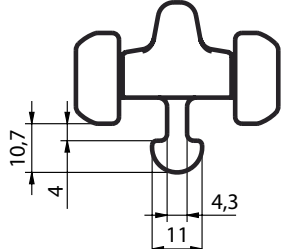
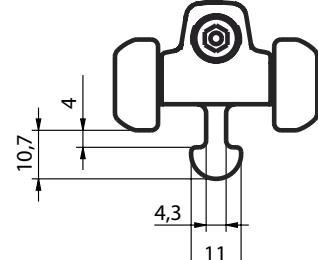


OWS compatible sail feeder gates

The OWS E-section slider (511-740 and 511-750) can be used with, and **passes through** Seldén sail feeder gate 505-501-01.

The OWS sliders 511-744 and 511-754 for keelboat sections (C106-C139) can be used with and passes through Seldén sail feeder gate 505-533-02.










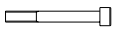






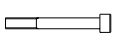


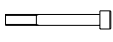






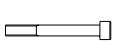









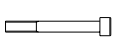













3.5.1 OWS slider - dimensions











Type	Measurements (mm)	Type	Measurements (mm)
OWS slider webbing 511-740		OWS slider batten 511-750	
OWS slider webbing 511-741		OWS slider batten 511-751	
OWS slider webbing 511-742		OWS slider batten 511-752	
OWS slider webbing 511-743 1)		OWS slider batten 511-753 1)	
OWS slider webbing 511-744		OWS slider batten 511-754	

All sliders for webbing can be used for headboard attachments and as intermediate sliders.

1) OWS sliders do not fit Seldén C-section for which MDS-cars, C (2003) or Inner Wheel Sliders, C (2017) should be used.

3.5.2 OWS slider - range

Type	Art. No.	Fits luff groove (mm)	Breaking load (N)	Assembly Art. No.	Parts Art. No.		
OWS slider webbing	 511-740	5.5	5000	 511-740-01			
OWS slider batten	 511-750	5.5	7000	 511-750-03	 511-750-01	 511-739-01 M10 screw	 153-117
				 511-750-02	 511-750-01		 153-117
OWS slider webbing	 511-741	10	5000	 511-741-01			
OWS slider batten	 511-751	10	7000	 511-751-03	 511-751-01	 511-739-01 M10 screw	 153-117
				 511-751-02	 511-751-01		 153-117
OWS slider webbing	 511-742	10	5000	 511-742-01			
OWS slider batten	 511-752	10	7000	 511-752-03	 511-752-01	 511-739-01 M10 screw	 153-117
				 511-752-02	 511-752-01		 153-117
OWS slider webbing	 511-743	12	5000	 511-743-01			
OWS slider batten	 511-753	12	7000	 511-753-03	 511-753-01	 511-739-01 M10 screw	 153-117
				 511-753-02	 511-753-01		 153-117
OWS slider webbing Big wheel	 511-744	5.5	5000	 511-744-01			
OWS slider batten Big wheel	 511-754	5.5	7000	 511-754-03	 511-754-01	 511-739-01 M10 screw	 153-117
				 511-754-02	 511-754-01		 153-117

Type	Fits mast section (only geometric fit)						
OWS slider webbing 511-740  OWS slider batten 511-750 	Seldén			John Mast	Soromap	Sparcraft	Z-spars
	E-section (10° aft face)	E-section (round aft face)	D-section	135D 148D 150D 165D 167D 185D 186D 208D 222D 245D 280D 305D 335D	NF200 NF270 NF350 NF430 NF540 NF710 NF1410	F135 F195 F305 F385 F460 I620 S622 I830 S830	Z301 Z351 Z380 Z401 Z501 Z531 Z601 Z602 Z701 Z702
OWS slider webbing 511-741  OWS slider batten 511-751 							
OWS slider webbing 511-742  OWS slider batten 511-752 							
OWS slider webbing 511-743  OWS slider batten 511-753 				220E 262E 290E		NG60 NG70 NG80 NG86 F580 F740 F1060 F1395 S1630 S2100 F2390 F3360 F4600	Z902 Z1001 Z1250 Z1400
OWS slider webbing Big wheel 511-744  OWS slider batten Big wheel 511-754 	C-section			150E 116E 125E		F35 F50 F67 F78 F101 S137 S180 S260 S330 IMS80 IMS256	Z170 Z190 Z230 Z265

C

3.6 MDS Full batten system for C-masts (2003)

3.6.1 MDS 45 and 68 Full batten system

Part no.	A
511-701-04 ¹⁾	140
511-701-06 ¹⁾	225
511-702-04 ¹⁾	118

1) See 3.6.2

Halyard to be attached in most forward hole of headboard

MDS cars should be used as intermediate connection, fastened via a webbing loop.

Important!
Batten fittings
 must be allowed to
 swivel freely or the batten car
 may not roll properly.
 The use of water resistant
 grease on the M10 thread is
 recommended.

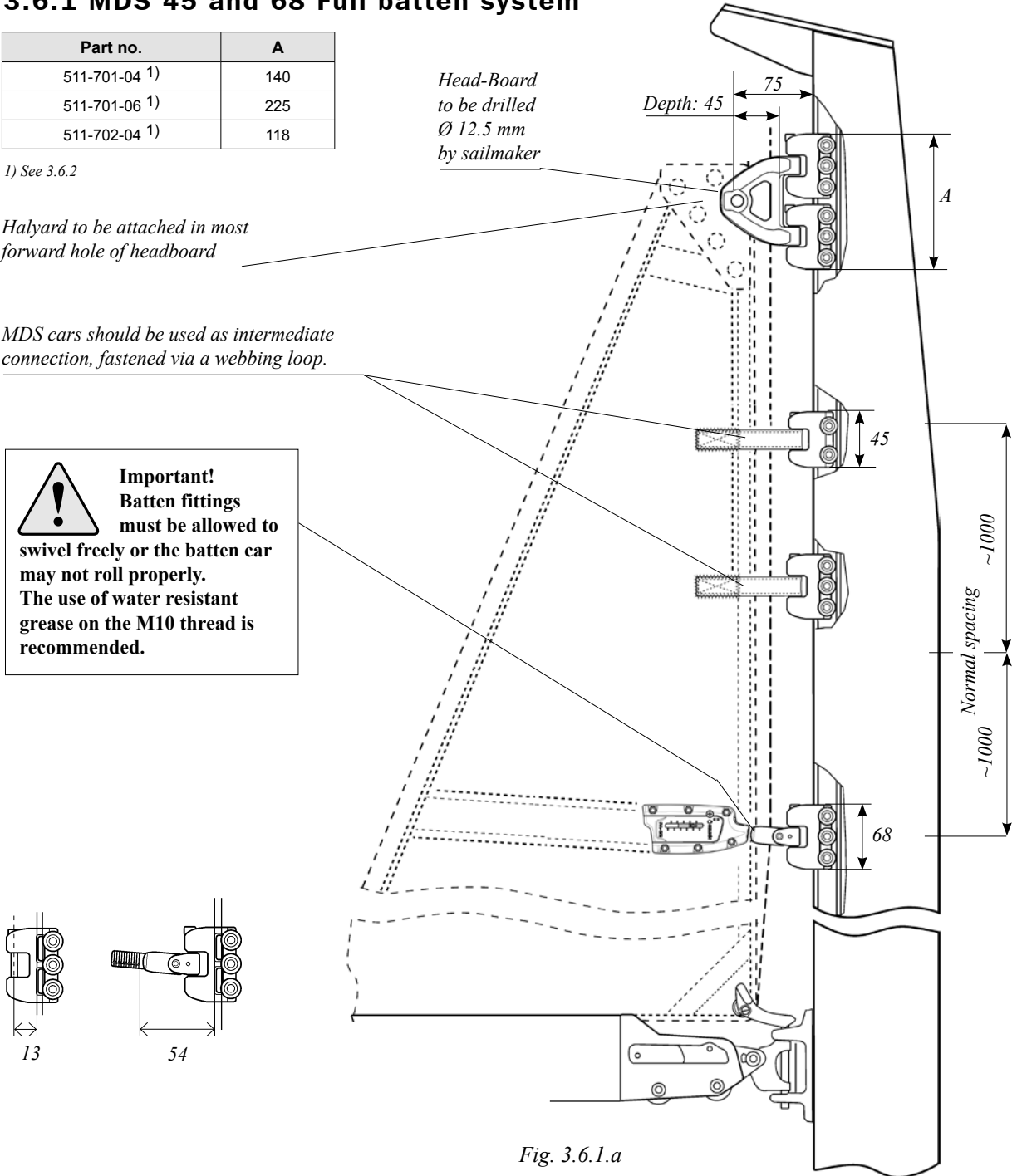


Fig. 3.6.1.a

	Important! Only MDS car 511-702 MUST be used in the masts sections below. 511-701 is possible to fit but will NOT function properly.		
Mast section	C156	C175	C193
MDS car			
	511-702	511-701	

C

3.6.2 Parts and RM-limits, MDS 45, MDS 68 and MDS 68 ALU

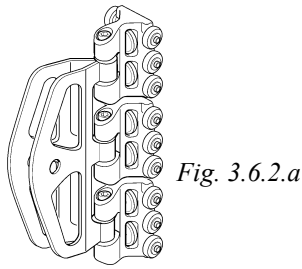


Fig. 3.6.2.a

511-701-06/511-717-06

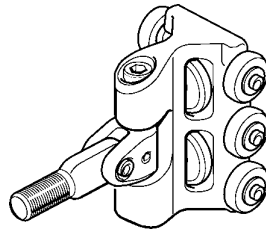


Fig. 3.6.2.b

511-701-03/511-717-03

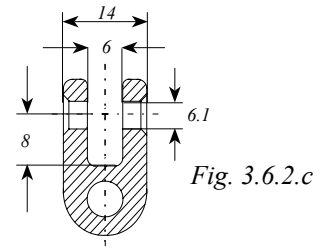


Fig. 3.6.2.c

511-723

	Assembly	Max RM kNm		Parts	Parts		Section
		Assembly Mh	Frac				
Head board	 511-707-01	90	70	 511-707	 166-234-01		C156 C211 C175 C227 C193 C245
	 511-708-01	160	120	 511-708	 166-234-01		C264 C285 C304
Head board car	 511-702-04	55	40	 511-707-01	 MDS 45 511-702-01	 153-118	C156 C175 C193
	 511-701-04	90	70	 511-707-01	 MDS 68 511-701-01	 153-117	C211 C264 C227 C285 C245 C304
	 511-701-06 MDS 68 ALU 511-717-06	160 330	120 250	 511-708-01	 MDS 68 511-701-01 MDS 68 ALU 511-717-01	 153-117	C211 C264 C227 C285 C245 C304
Batten Car	 511-702-03	90	70	 MDS 45 511-702-01	 511-712-01 M10 screw	 153-118	C156 C175 C193
	 511-702-08			 MDS 45 511-702-01	 511-723 ¹⁾	 153-118	
	 511-701-03 MDS 68 ALU 511-717-03	160 330	120 250	 MDS 68 511-701-01 MDS 68 ALU 511-717-01	 511-712-01 M10 screw	 153-117	C211 C227 C245 C264 C285 C304
	 MDS 68 511-701-08 MDS 68 ALU 511-717-08	160 330	120 250	 MDS 68 511-701-01 MDS 68 ALU 511-717-01	 511-723 ¹⁾	 153-117	
Sail Car	 MDS 45 511-702-02	90	70	 MDS 45 511-702-01	 511-719	 153-118	C156 C245 C175 C264 C193 C285 C211 C304 C227
	 MDS 68 511-701-02 MDS 68 ALU 511-717-02	160 330	120 250	 MDS 68 511-701-01 MDS 68 ALU 511-717-01	 511-719	 153-117	C211 C264 C227 C285 C245 C304

1) Measurement see fig. 3.6.2.c.

C

3.6.3 IWS Full batten system for C-masts (2017-)

Part no.	A
511-760-04	140
511-760-06	225
511-729-04	118

1) See 3.6.2

Halyard to be attached in most forward hole of headboard

Cars should be used as intermediate connection, fastened via a webbing loop.

Important!
Batten fittings
 must be allowed to
 swivel freely or the batten car
 may not roll properly.
 The use of water resistant
 grease on the M10 thread is
 recommended.

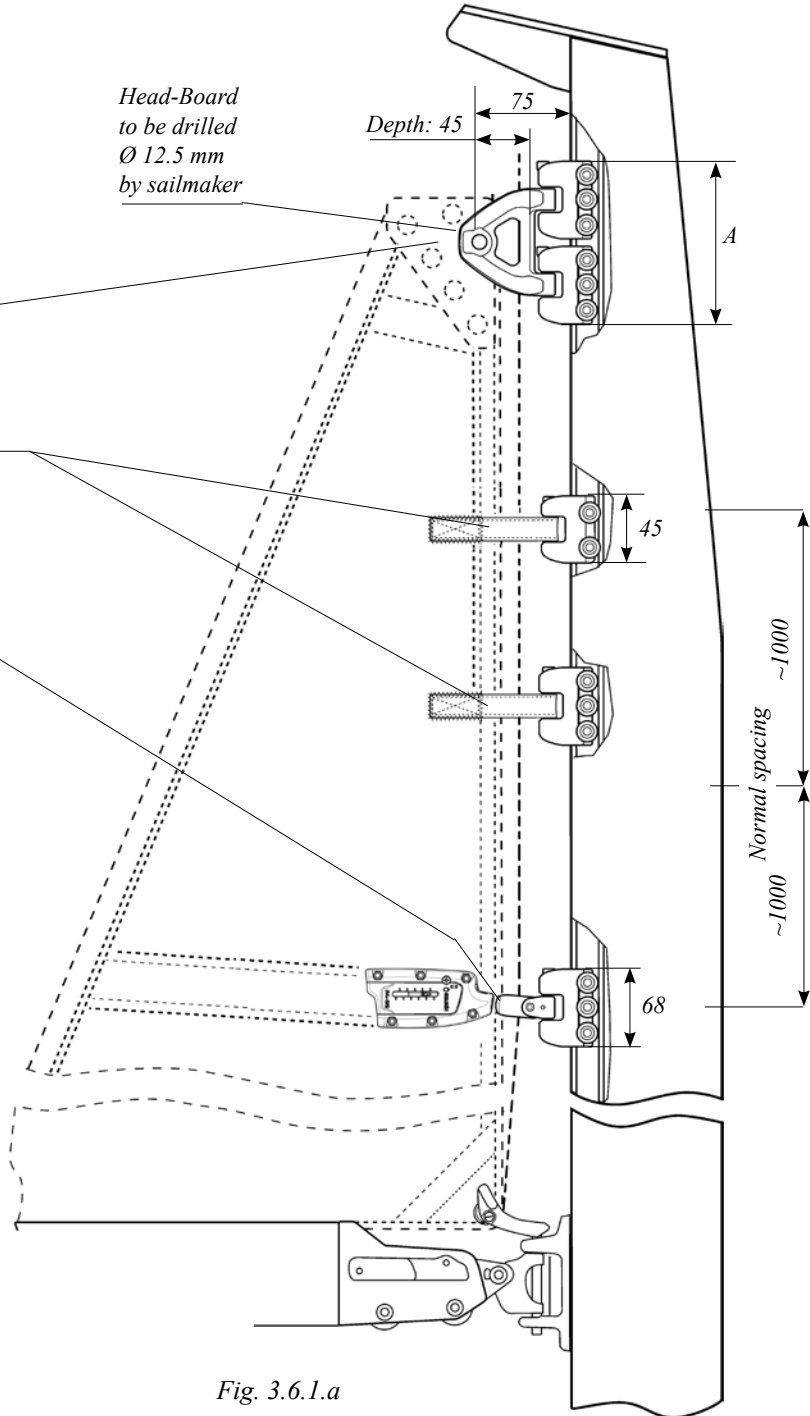
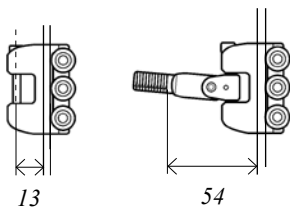


Fig. 3.6.1.a

	<p>Important! Inner Wheel Slider 511-760 does not fit in masts C137, C153, C180.</p>
<p>Inner Wheel Slider</p>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>511-729</p> </div> <div style="text-align: center;"> <p>511-760</p> </div> </div>

C

3.6.4 Parts and RM-limits, IWS 45, IWS 68

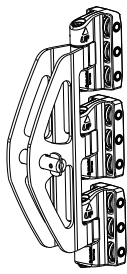


Fig. 3.6.2.a

511-760-06

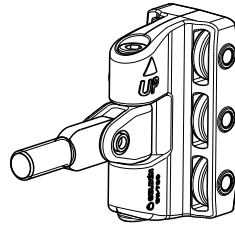


Fig. 3.6.2.b

511-760-03

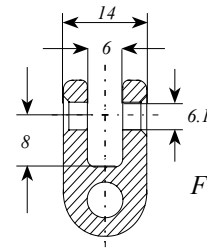


Fig. 3.6.2.c

511-723

	Assembly	Max RM kNm		Parts	Parts		Section
		Assembly Mh	Frac				
Head board	 511-707-01	90	70	 511-707	 166-234-01		See assemblies below
	 511-708-01	160	120	 511-708	 166-234-01		See assemblies below
Head board car	 511-729-04	90	70	 511-707-01	 IWS 45 511-729-01	 153-118	C137 C208 C153 C192 C180 C225
	 511-760-04	90	70	 511-707-01	 IWS 68 511-760-01	 153-117	C192 C242 C208 C261 C225 C280
	 511-760-06	330	250	 511-708-01	 IWS 68 511-760-01	 153-117	C192 C242 C208 C261 C225 C280
Batten Car	 511-729-03	160	120	 IWS 45 511-729-01	 511-712-01 M10 screw	 153-118	C137 C153 C180
	 511-729-08			 IWS 45 511-729-01	 511-723 ¹⁾	 153-118	
	 511-760-03	160	120	 IWS 68 511-760-01	 511-712-01 M10 screw	 153-117	C192 C208 C225 C242
	 IWS 68 511-760-08	160	120	 IWS 68 511-760-01	 511-723 ¹⁾	 153-117	C261 C280
Sail Car	 IWS 45 511-729-02	90	70	 IWS 45 511-729-01	 511-719	 153-118	C137 C225 C153 C242 C180 C261 C192 C280 C208
	 IWS 68 511-760-02	160	120	 IWS 68 511-760-01	 511-719	 153-117	C192 C242 C208 C261 C225 C280

1) Measurement see fig. 3.6.2.c.

C

3.6.5 MDS 80 Full batten system

Part no.	A
511-730-06	280

Halyard to be attached in most forward hole of headboard to avoid halyard chafe

Headboard to be drilled Ø 15 mm by sailmaker

MDS cars should be used as intermediate connection, fastened via a webbing loop.

Important!
Batten fittings must be allowed to swivel freely or the batten car may not roll properly.
The use of water resistant grease on the M10 thread is recommended.

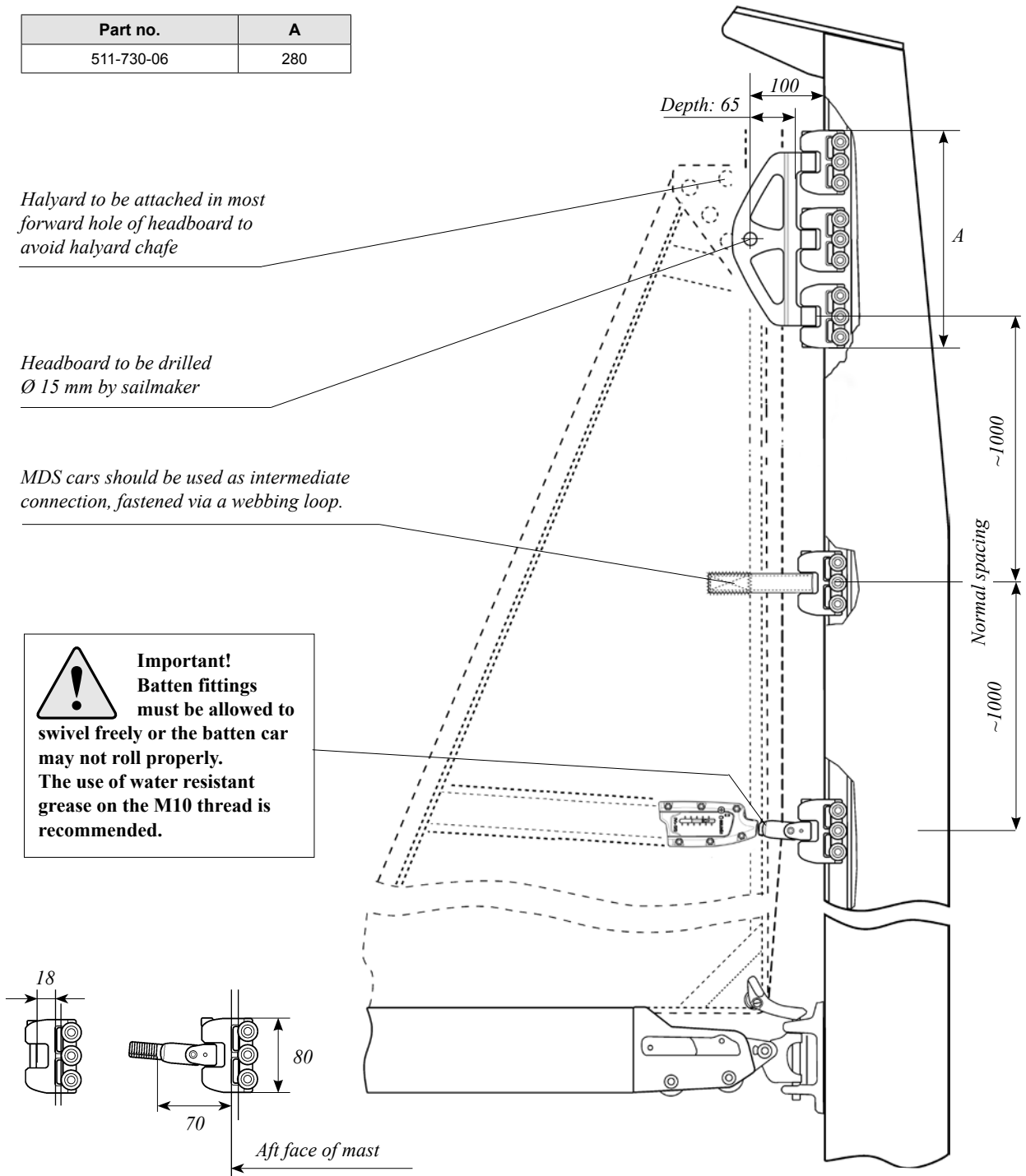


Fig. 3.6.3.a

C

3.6.6 Parts and RM-limits, MDS 80 and MDS 80 HD*

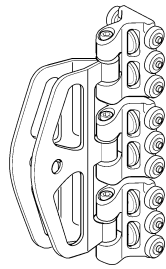


Fig. 3.6.4.a

511-730-06/511-731-06

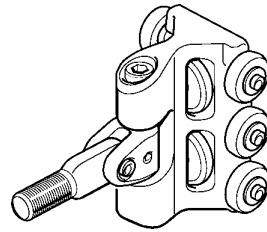


Fig. 3.6.4.b

511-730-03/511-731-06

	Assembly	Max RM kNm		Parts	Parts	Section	
		Assembly	Frac				
Head board	 511-728-01	550	450	 511-728	 165-504-01	C321 C365	
Head board car	 MDS 80 511-730-06 MDS 80 HD 511-731-06	250	200	 511-728-01	 511-730-01	 153-139	C321 C365
		550	450				
Batten car	 MDS 80 511-730-03 M10 screw MDS 80 511-730-09 M12 screw MDS 80 HD 511-731-03 M10 screw MDS 80 HD 511-731-09 M12 screw	250	200	 MDS 80 511-730-09 MDS 80 HD 511-731-09	 511-727-01 M12	 153-139	C321 C365
		550	450		 511-727-02 M10		
Sail car	 MDS 80 511-730-02 MDS 80 HD 511-731-02	250	200	 MDS 80 511-730-01 MDS 80 HD 511-731-01	 153-139	C321 C365	

*MDS 80 HD has machined aluminium body



3.7 Seldén – RCB full batten System 22 and System 30

3.7.1 Dimensions

	RCB 22	RCB 30
A	Min 59	Min 68
C	96	108
D	40	60
E	180	250
F	77	80
G	77	104
K	42	54
L	76	86

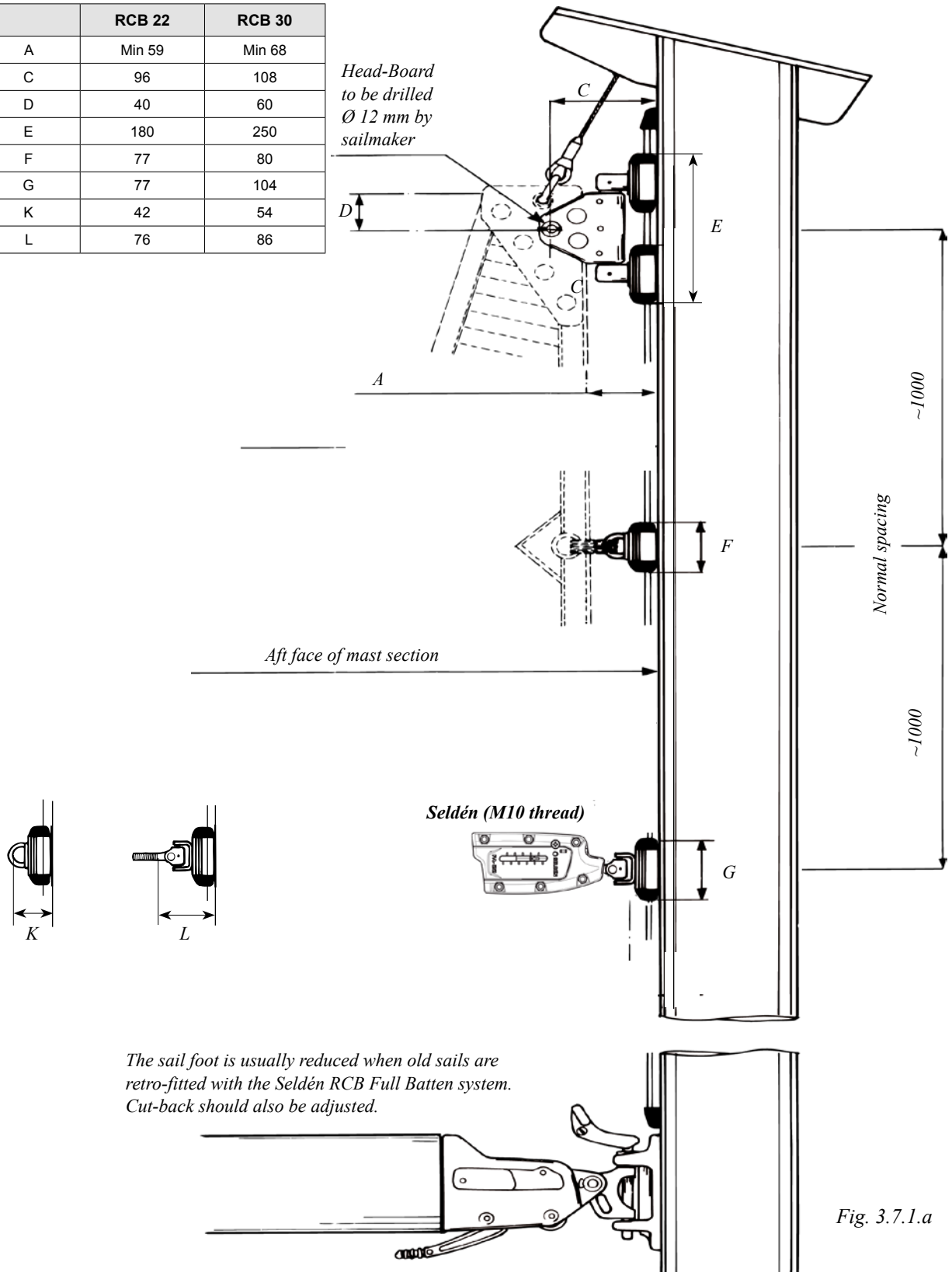


Fig. 3.7.1.a

D & E

C

3.7.2 Parts

The slide attachment eye is easily detached from the slide and can be sent to the sailmaker separately. It also facilitates fitting the mainsail.

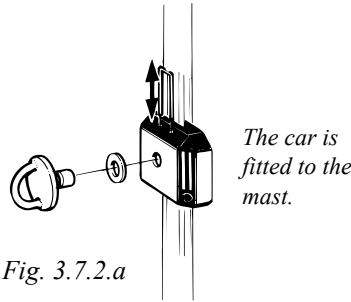


Fig. 3.7.2.a

		Connectors	Car	Total assembly
Head-board car				
	RCB 22	511-595-11	511-581-11	511-595-01
	RCB 22 Light	511-703-11	511-703-11	511-703-11
	RCB 30	511-695-11	511-681-11	511-695-01
Batten car All-Round: Fits Rutgerson batten fitting and others				
	RCB 22	511-590-01		511-581-04
	RCB 22 Light	511-703-11		511-703-11
	RCB 30	511-690-01		511-681-04
Batten car With M-10 screw: Fits Bainbridge batten fitting and others				
	RCB 22	511-598-01		511-581-03
	RCB 22 Light	511-703-11		511-703-11
	RCB 30	511-692-01		511-681-03
Sail car				
	RCB 22	511-590-01		511-581-04
	RCB 22 Light	511-703-11		511-703-11
	RCB 30	511-690-01		511-682-11

3.7.3 Try Sail slider

(Part. no.: 511-713)

- Three sliders at the head and tack of the sail c/c 50 mm (2"). Remaining cars to be fitted with c/c ~400 mm (16").
- For sufficient articulation always connect cars to sail via shackles.
- For less friction use Seldén Silicone lubricant (Part No. 312-506) or similar products on the track.
- Breaking load 2.6 kN.

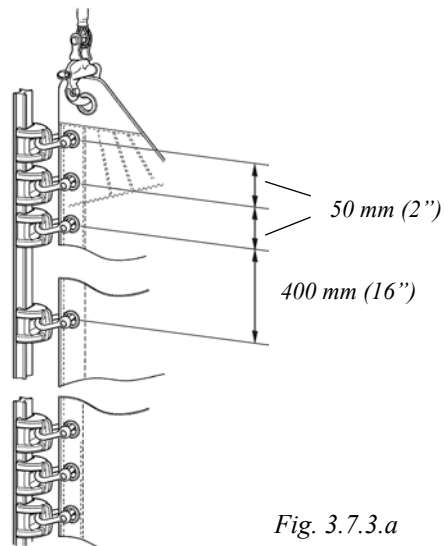


Fig. 3.7.3.a

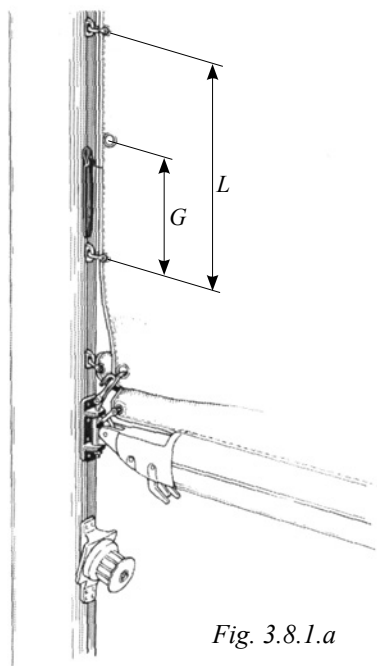


Fig. 3.8.1.a

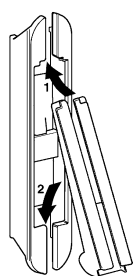


Fig. 3.8.1.b

Sail feeder gate
Art. no.
505-501-01 or
505-503-01



Fig. 3.8.1.c

Sail feeder insert
Art. no. 505-516-01
or 505-524-01

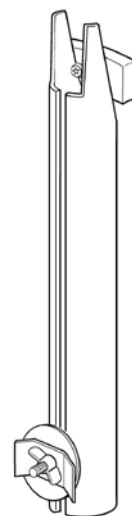


Fig. 3.8.1.d

Sail slide
cassette kit
Art. no.
505-514-01

3.8 Sail Feeder Gates

3.8.1 Seldén E-section Sail Feeder Gate

The Seldén E-section sail feeder gate allows reefing without needing to remove the slides from the luff groove. Ensure that the measurement "G" is sufficient to allow the reef cringle to be hooked on with the slides in place in the luff groove.

"L" = the largest possible slide spacing as recommended by the sailmaker.

Note. Remember that the reef cringles also have "cut-back" to reduce horizontal loading on the nearest slide.

See Reef-hook cut-back "F" or Single Line Reef cut-back "S" at chapter 5, Slab reefing booms.

Section Series E122/85–274/185 & D109/88–160/132

The sail feeder is fitted with a removable gate to permit the mainsail to be fitted with either a luff rope or with slides. See fig. 3.8.1.b. Length of outer oval casing of 505-501-01 is 160 mm, 505-503-01 is 130 mm.

Section Series E126/85–239/162 & P73/53–188/137

From 1977 to 1979 inclusive, these sections were fitted with the sail feeder gate mentioned above. Earlier sections have a dilated luff groove just above the gooseneck fitting to allow either luff rope or slides to be fed in. An extension tube, see fig. 3.8.1.d (part number 505-514-01) is obtainable as extra equipment for these masts. This allows slides to move down the luff groove to the upper edge of the gooseneck fitting, and permits reefing in the same way as in fig. 3.8.1.a.

Sail feeder Gate Insert for Full length Batten Cars

For sails with full batten sliders, a sail groove insert is available (see fig. 3.8.1.c).

This insert was developed for full batten sliders from other brands than Seldén. Seldén's own full batten slider (OWS slider) **does not need this extra insert as the OWS slider can pass through the original Seldén sail feeder gate 505-501-01/505-503-01.**

For other brands of full batten sliders:

Insert 505-516-01 can be fitted instead of the original sail feeder gate 505-501-01. (Sections E138/95-E274/185 & D129/100-D160/132).

Insert 505-524-01 can be fitted instead of the original sail feeder gate 505-503-01. (Sections E122/85, E130/93, D109/88 & D121/92).

C
C156
 -
C365

3.8.2 Seldén MDS Sail Feeder Gate - Yacht mast

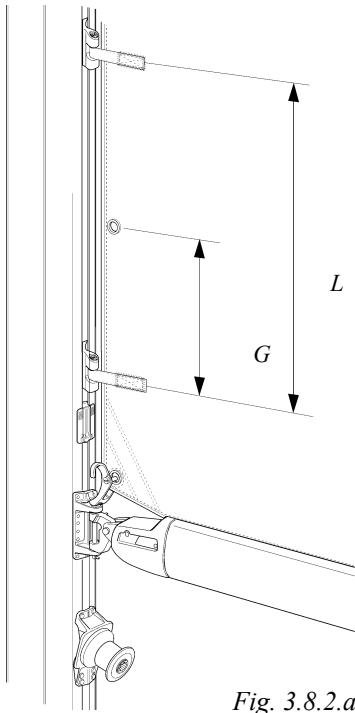


Fig. 3.8.2.a

The Seldén C-section sail feeder gate allows reefing without needing to remove the slides from the luff groove. Ensure that the measurement "G" is sufficient to allow the reef cringle to be hooked on with the slides in place in the luff groove.

"L" = the largest possible slide spacing as recommended by the sailmaker.

Note. Remember that the reef cringles also have "cut-back" to reduce horizontal loading on the nearest slide.

See Reef-hook cut-back "F" or Single Line Reef cut-back "S" at chapter 5, Slab reefing booms.

Fig. 3.8.2.b

MDS Sail feeder gate for C156-C304
 Part. no. 505-519-01

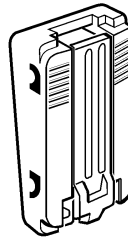
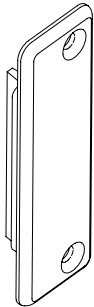


Fig. 3.8.2.c

MDS Sail feeder gate for C321 and C365
 Part. no. 507-309-01



Instructions for the MDS sail feeder gate.

The MDS-sail feeder gate is designed for use with MDS cars or conventional sail sliders. When using MDS cars, simply remove the sail feeder gate when installing or removing the cars. When using it with conventional sliders, feed the sliders through the spring-loaded mid section of the sail feeder gate.

Feeding MDS Cars	Feeding Sail sliders
<p style="text-align: center;">Fig. 3.8.2.d</p>	<p style="text-align: center;">Fig. 3.8.2.e</p>
<p>Sail feeder gate is easily removed to fit or remove Seldén MDS cars.</p> <ol style="list-style-type: none"> 1. Press at the bottom of the middle gate. 2. Push the Sail feeder gate body downwards. 	<p>Sail feeder gate is designed for use with Seldén MDS cars or conventional sail slides.</p>

3.8.2 Seldén IWS Sail Feeder Gate - Yacht mast

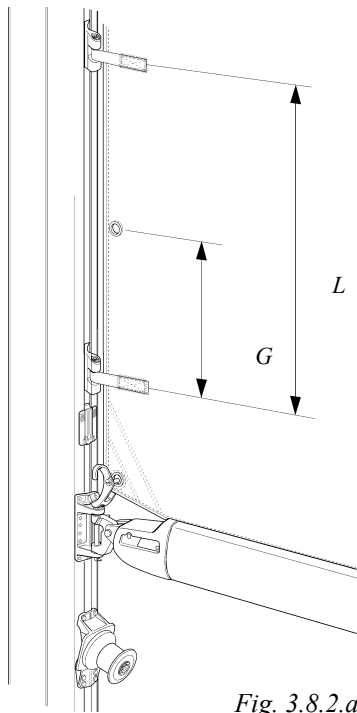


Fig. 3.8.2.a

The Seldén C-section sail feeder gate allows reefing without needing to remove the slides from the luff groove. Ensure that the measurement "G" is sufficient to allow the reef cringle to be hooked on with the slides in place in the luff groove.

"L" = the largest possible slide spacing as recommended by the sailmaker.

Note. Remember that the reef cringles also have "cut-back" to reduce horizontal loading on the nearest slide.

See Reef-hook cut-back "F" or Single Line Reef cut-back "S" at chapter 5, Slab reefing booms.

Fig. 3.8.2.b

IWS Sail feeder gate for C137-C180
Part. no. 505-552-01

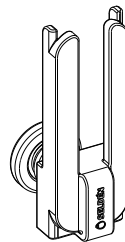
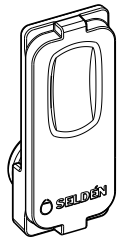


Fig. 3.8.2.c

IWS Sail feeder gate for C192-C280
Part. no. 505-554-01



Instructions for the IWS sail feeder gate.

The IWS-sail feeder gate is designed for use with IWS cars or conventional sail sliders. When using IWS cars, simply remove the sail feeder gate when installing or removing the cars. When using it with conventional sliders, feed the sliders with gate in position.

Feeding IWS Cars	Feeding Sail sliders
<p style="text-align: right;">Fig. 3.8.2.d</p>	
<p>Sail feeder gate is easily removed to fit or remove Seldén IWS cars.</p> <ol style="list-style-type: none"> 1. Press at the top of the gate. 2. Push the Sail feeder gate body upwards. 	<p>Sail feeder gate is designed for use with Seldén IWS cars or conventional sail sliders.</p>

C
C080
-
C139

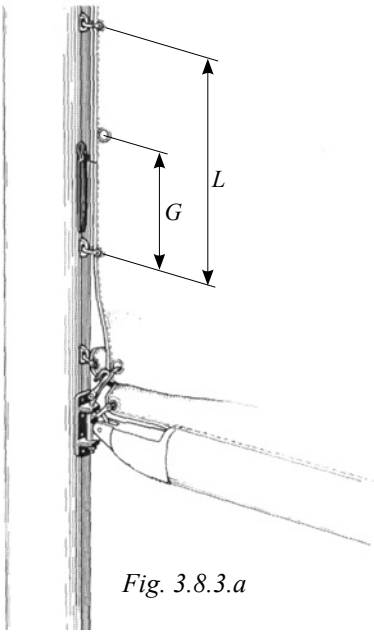


Fig. 3.8.3.a

3.8.3 Seldén Sail feeder Gate - Keelboat

The Seldén C-section sail feeder gate allows reefing without needing to remove the slides from the luff groove. Ensure that the measurement "G" is sufficient to allow the reef cringle to be hooked on with the slides in place in the luff groove.

"L" = the largest possible slide spacing as recommended by the sailmaker.

Note. Remember that the reef cringles also have "cut-back" to reduce horizontal loading on the nearest slide.

See Reef-hook cut-back "F" or Single Line Reef cut-back "S" at chapter 5, Slab reefing booms.

Section Series C080 - C139

The sail feeder is fitted with a removable gate to permit the mainsail to be fitted with either a luff rope or with slides. See fig. 3.8.3.b.

How to fit
Sail feeder

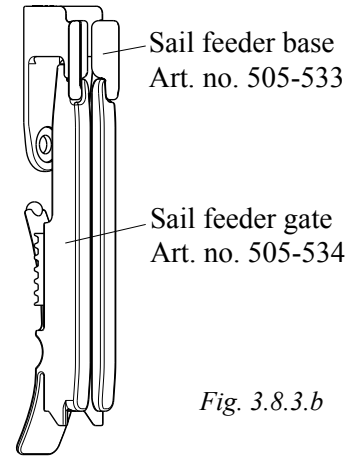
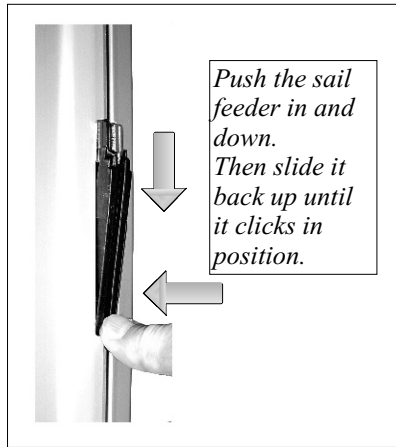
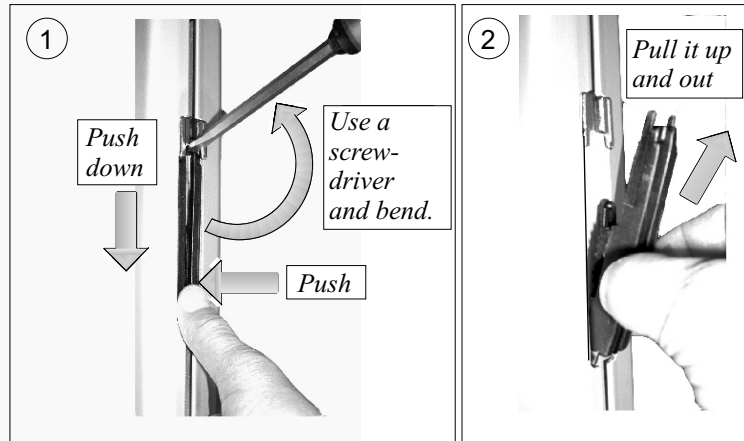


Fig. 3.8.3.b

How to remove
Sail feeder



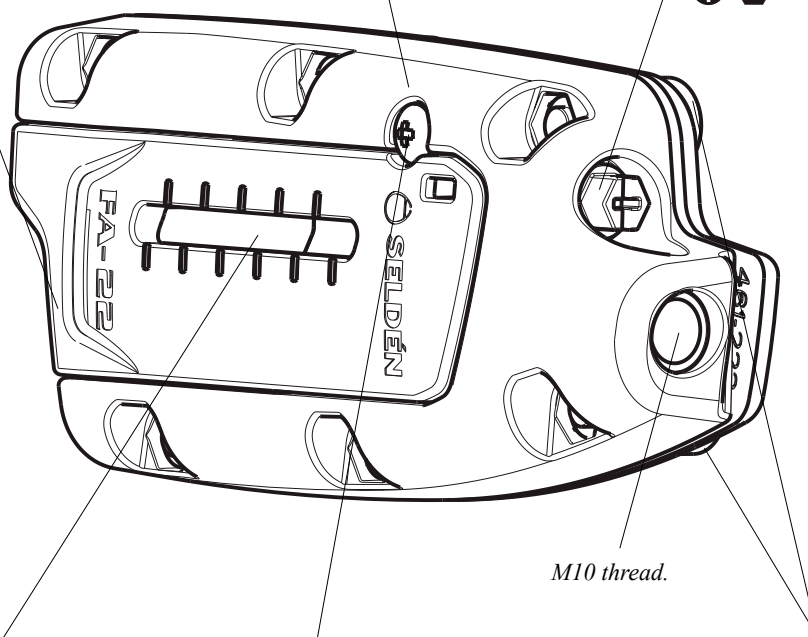
4 Batten receptacles

Batten receptacles

Each size of the adjustable batten receptacles is available in two models to ensure correct fit on round, flat and rectangular battens.

Safety cord secures the cover to the body.

The FA-models have access to the adjustment screw both front and rear which enables adjustment of the batten even when the sail is flaked on the boom. The adjustment screw is compatible with multiple screw heads.



Indicators to record batten tension for the ultimate trim.

Easy set up and removal of batten with sliding cover and a locking screw. No need to fully release the screw to remove the cover.

Protecting collar at the backing plate prevents the forward screw heads to chafe on the mast surface.

4.1 Batten receptacle fittings

The fittings are designed to be used with toggle M10 stud (511-712-01, 511-727-02 or 511-739-01).

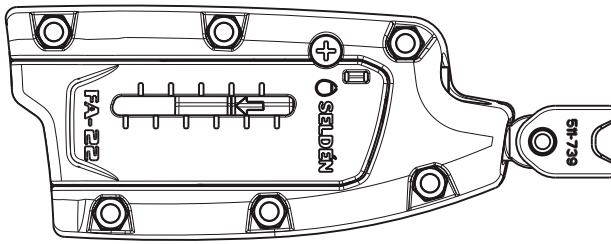


Fig. 4.1.a

The adjustable batten receptacles are available for either round or rectangular battens.

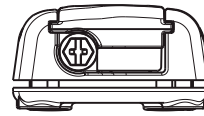


Fig. 4.1.b
(461-210-01)

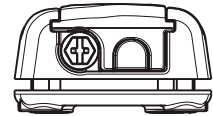


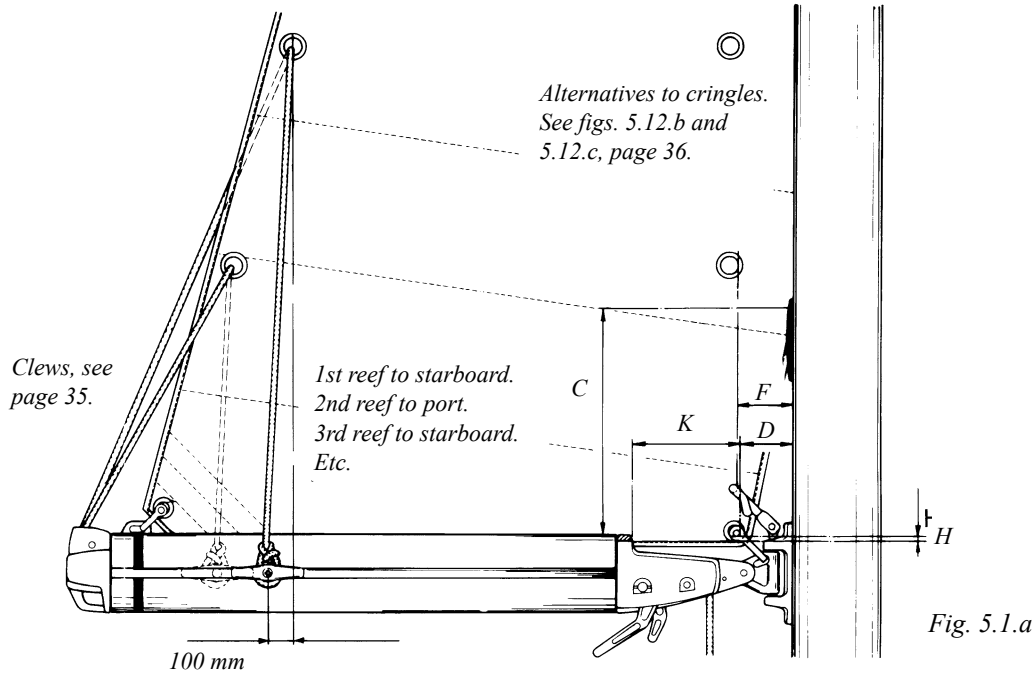
Fig. 4.1.c
(461-210-02)

4.2 Batten receptacle range

Type	Art. No.	Batten sizes (mm)		Batten receptacle		Adj. length (mm)	Stud dim.
		Round	Flat				
P-30	461-237-01	Ø10	5.5x31			-	M10
P-40	461-235-01	Ø10	5.5x41			-	M10
A-17	461-210-01	-	6.5x18			38	M10
	461-210-02	Ø8	-				
FA-22	461-220-01	-	9.5x23			33	M10
	461-220-02	Ø10	-				
FA-30	461-230-01	-	6.5x31			36	M10
	460-230-02	Ø12	-				

D&E 5 Slab reefing booms

5.1 Boom sections on conventional masts (through 1991) (Tacks, reefing hooks etc) Slab reefing and roller reefing on older booms



	Boom section	Luff foot groove mm	Sail feeder gate "cut-back"		Tack		Reef hooks F mm	No. of internal reefing lines	Reef line attachment at aft end of boom	
			C mm	K mm	D mm	H mm				
	Grooved Section 1977-1991	4.0 + 0.75 - 0.0							Reefing line tied fast to slide on the boom. Free choice of number of slides.	
	85/58 86/59*		600	190	60	0	50	2		
	111/75 128/90 150/105 162/125	5.5 ± 0.75	830	205	75	10	65	2		
			830	225	75	20	65	2		
			830	265	60	30	105	3		
		830	330	60	25	105	4			
	E-Section 1982-1991	5.5 ± 0.75							Reefing line tied around boom; see fig. 5.2.a, page 26.	
	189/132 206/139		830	330	60	25	105	4		
	P-Section 1969-1980	4.0 + 0.75 - 0.0	Several variations exist. Spars must be individually measured.						Usually roller reefing booms, but also slab-reefing booms with external reefing lines occur.	Adjustable slides on tracks occur, but reefing lines can also be tied around boom. See fig. 5.2.a page 26.
	73/53 90/65 111/81									
	137/100	4.5 + 0.75 - 0.0								

* Still in production.



5.2 Traditional slab-reefing booms from 1991 inclusive 2003



Important!

1. The reefing line is tied as illustrated, with a bowline and running noose. No. 1 reef is shown. Note that grommets are required along the foot for each reef.
2. For loose-footed sails, the reef line loop must be held in the correct position along the boom, to ensure proper reefing. Seldén's eye slider can be used for this. (See table 5.13).

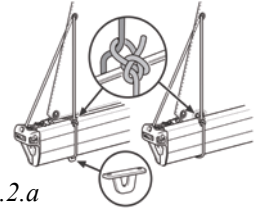


Fig. 5.2.a

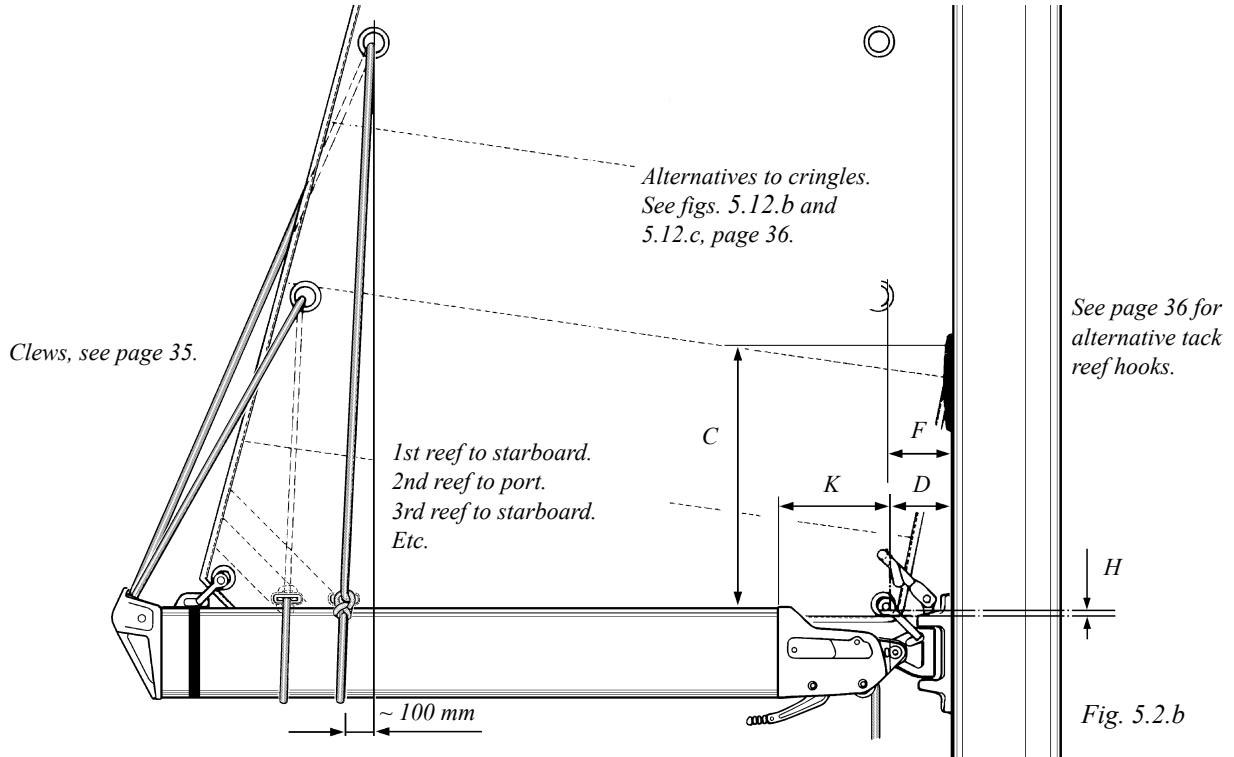


Fig. 5.2.b

	Boom section	Luff foot groove mm	Sail feeder gate "cut-back"		Tack		Reef hooks F mm	No. of internal reefing lines	Reef line attachment at aft end of boom
			C mm	K mm	D mm	H mm			
	120/62	5.5 ± 0.75	830	215	75	10	65	2 slab reefs + 1 flattening reef	Reefing line tied around boom; see fig. 5.2.a.
	143/76		830	160	80	20	80	3 slab reefs	
	171/94		830	190	80	20	80	3 slab reefs	
	200/117	6.25 ± 0.75	830	250	100	20	110	4 slab reefs	
250/140	830		275	100	20	110	4 slab reefs		
	300/155	6.25 ± 0.75	830	100	77	37	Running hook page 36	2-4 slab reefs	

C

5.3 Traditional slab-reefing booms on C-mast from 2003 - 2007



Important!

1. The reefing line is tied as illustrated, with a bowline and running noose. No. 1 reef is shown. Note that grommets are required along the foot for each reef.
2. For loose-footed sails, the reef line loop must be held in the correct position along the boom, to ensure proper reefing. Seldén's eye slider can be used for this. (See table 5.13).

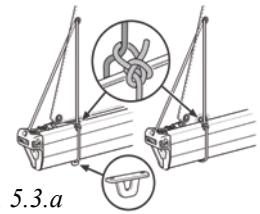


Fig. 5.3.a

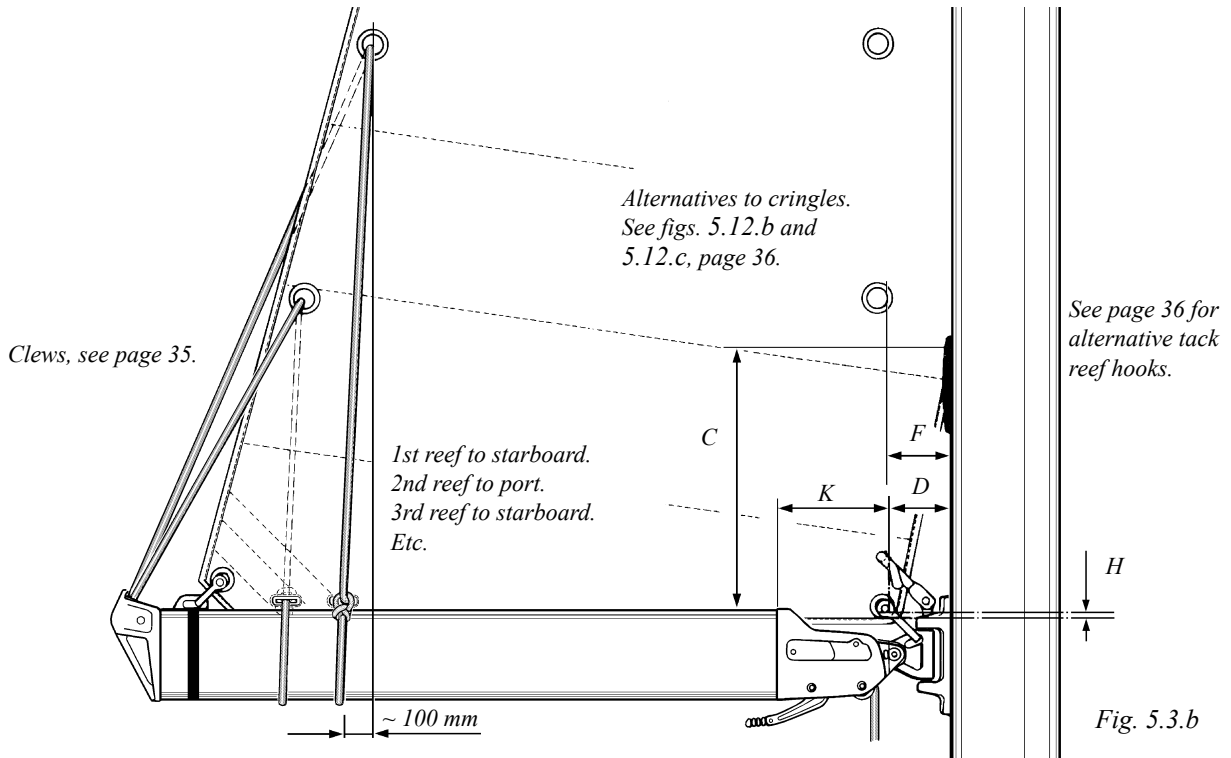


Fig. 5.3.b

Mast section	Boom section	Luff foot groove mm	Sail feeder gate "cut-back"			Tack		Reef hooks F	No. of internal reefing lines	Reef line attachment at aft end of boom
			C (MDS slides) mm	C (bolt rope) mm	K mm	D mm	H mm			
C156		120/62	5.5 ± 0.75	130	850	150	80	35	80	Reefing line tied around boom; see fig. 5.3.a.
C175		143/76	5.5 ± 0.75	110	830	165	80	20	80	
C193		171/94	5.5 ± 0.75	110	830	195	80	20	80	
C211		200/117	6.25 ± 0.75	110	830	270	80	20	80	
C227 C245		200/117	6.25 ± 0.75	110	830	270	80	20	80	
C264		171/94	5.5 ± 0.75	180	830	210	100	45	110	3 slab reefs
C285		200/117	6.25 ± 0.75	150	830	250	100	20	110	4 slab reef
C304		250/140	6.25 ± 0.75	150	830	275	100	20	110	4 slab reef
C264 C285 C304		300/155	6.25 ± 0.75	170	830	75	100	35	Running hook page 36	2-4 slab reefs

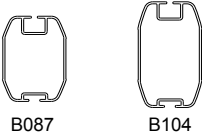
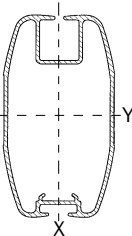
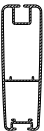
5.4 New boom section series 2008

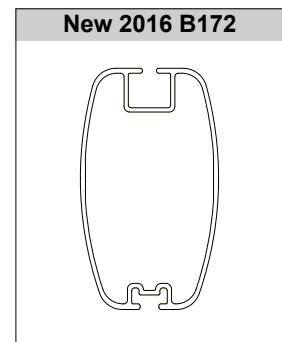
During 2007/2008 a new series was launched containing more different section sizes and new end fittings. The new booms can be identified by their shorter inboard ends.

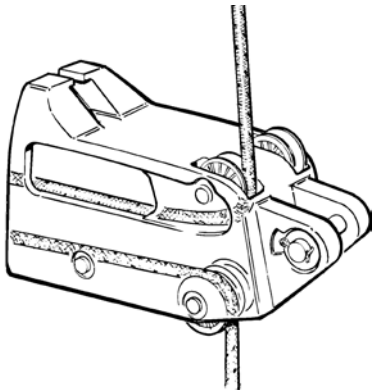
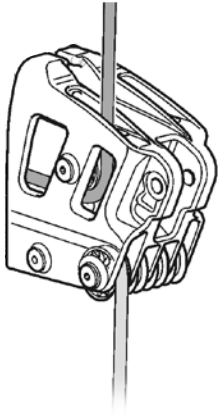
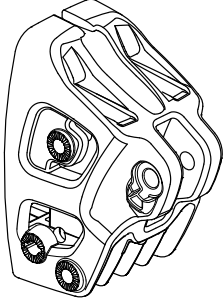
The boom sections will have changed descriptions from 2008.

Old Description	New Description
120/62	B120
New 2008	B135
143/76	Outgoing 2007
New 2008	B152
171/94	B171
200/117	B200
230/70	B230
250/140	B250
290/155	
New 2016	B172

New boom series 2008

	Boom	Boom dim.	Sail foot groove mm
	B087	86/59	5.5 ± 0.6
	B104	104/60	5.5 ± 0.6
	B120	120/62	5.5 ± 0.75
	B135	135/71	5.8 ± 0.75
	B152	152/82	5.8 ± 0.75
	B171	171/94	5.5 ± 0.75
	B172	171/98	10 ± 0.8
	B200	200/117	6.25 ± 0.75
	B250	250/140	6.25 ± 0.75
	B290	290/155	10.25 ± 0.75
	B300	300/155	6.25 ± 0.75
	B380	380/186	-
	B190	190/60	5.5 ± 0.75
	B230	230/70	6.25 ± 0.75



"Old" boom inboard end 1991-2007	New boom inboard end 2008	New boom inboard end 2016
		

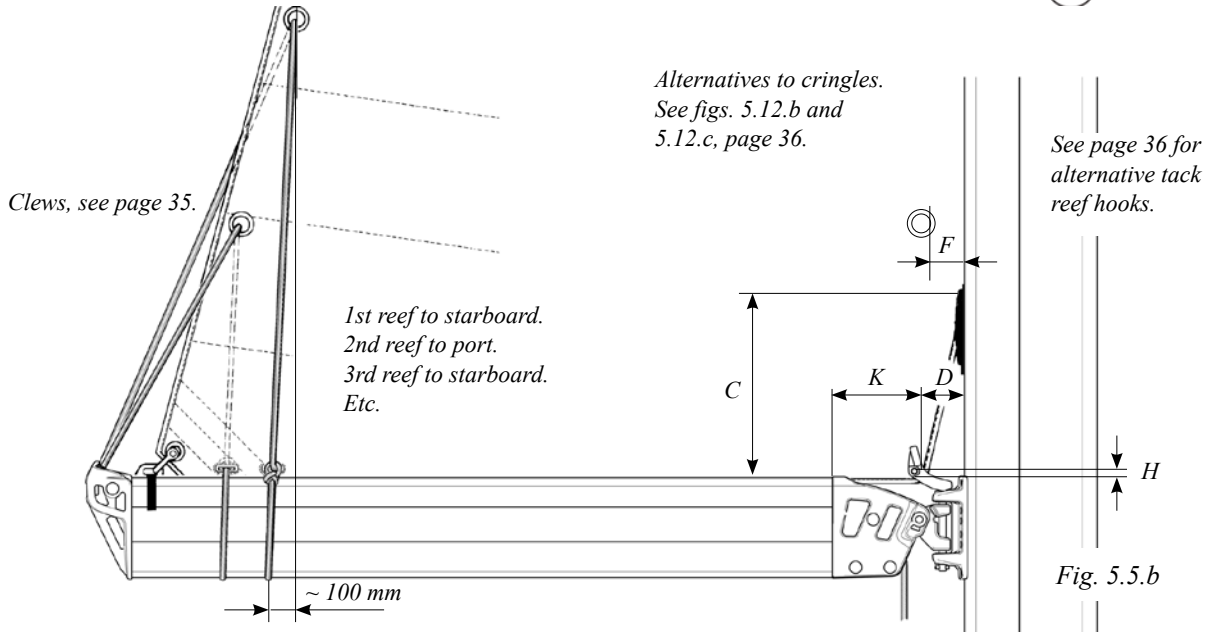
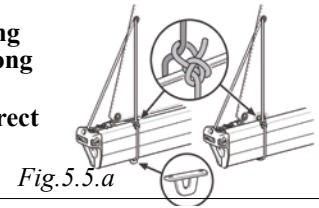
C

5.5 Traditional slab-reefing booms on C-mast from 2008



Important!

1. The reefing line is tied as illustrated, with a bowline and running noose. No. 1 reef is shown. Note that grommets are required along the foot for each reef.
2. For loose-footed sails, the reef line loop must be held in the correct position along the boom, to ensure proper reefing. Seldén's eye slider can be used for this. (See table 5.13).



Mast section		Boom section	Luff foot groove mm	Sail feeder gate "cut-back"			Tack			Reef hooks mm	No. of internal reefing lines	Reef line attachment at aft end of boom
				C (MDS slides) mm	C (bolt rope) mm	K mm	D mm	H mm				
C080 C087 C096 C106 C116 C126 C139		B087	5.5 ± 0.75	~	600	55	55	0	70	2 slab reefs	Reefing line tied around boom; see fig. 5.5.a.	
		B104	5.5 ± 0.75	~	600	55	55	0	70	2 slab reefs		
		B120	5.5 ± 0.75	~	600	165	65	20	70	2 slab reefs		
C126 C139		B120	5.5 ± 0.75	~	600	165	65	20	70	2 slab reefs		
C156		B087	5.5 ± 0.75	130	750	55	65	20	70	2 slab reefs		
C156 C175 C193 C211 C227 C245		B104	5.5 ± 0.75	130	750	150	80	35	80	2 slab reefs + 1 flattening reef		
		B120	5.5 ± 0.75	130	750	105	80	30	80	3 slab reefs		
		B135	5.8 ± 0.75	120	750	105	80	20	80	3 slab reefs		
		B152	5.5 ± 0.75	110	750	120	80	20	80	3 slab reefs		
		B171	5.5 ± 0.75	110	750	100	80	20	65	3 slab reefs		
C264 C285 C304 C225		B172	10 ± 0.8	170	750	175	100	15	80	4 slab reefs		
		B200	6.25 ± 0.75	150	750	175	100	15	110	3 slab reefs		
		B250	6.25 ± 0.75	157	750	175	100	15	110	4 slab reefs		
		B290	10.25 ± 0.75	170	750	75	100	35	Running hook page 36	2-4 slab reefs		
C264 C285 C304		B300	6.25 ± 0.75	-	-	150	80	0				
		B380	-	210	-	150	80	0				
C365		B380	-	-	-	-	-	-				
C405		B380	-	-	-	-	-	-				



5.6 Single line reef booms from 1991 - 2003



Important!

1. The reefing line is tied as illustrated, with a bowline and running noose. No. 1 reef is shown. Note that grommets are required along the foot for each reef.
2. For loose-footed sails, the reef line loop must be held in the correct position along the boom, to ensure proper reefing. Seldén's eye slider can be used for this. (See table 5.13).

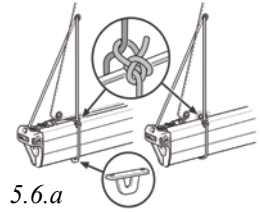


Fig. 5.6.a

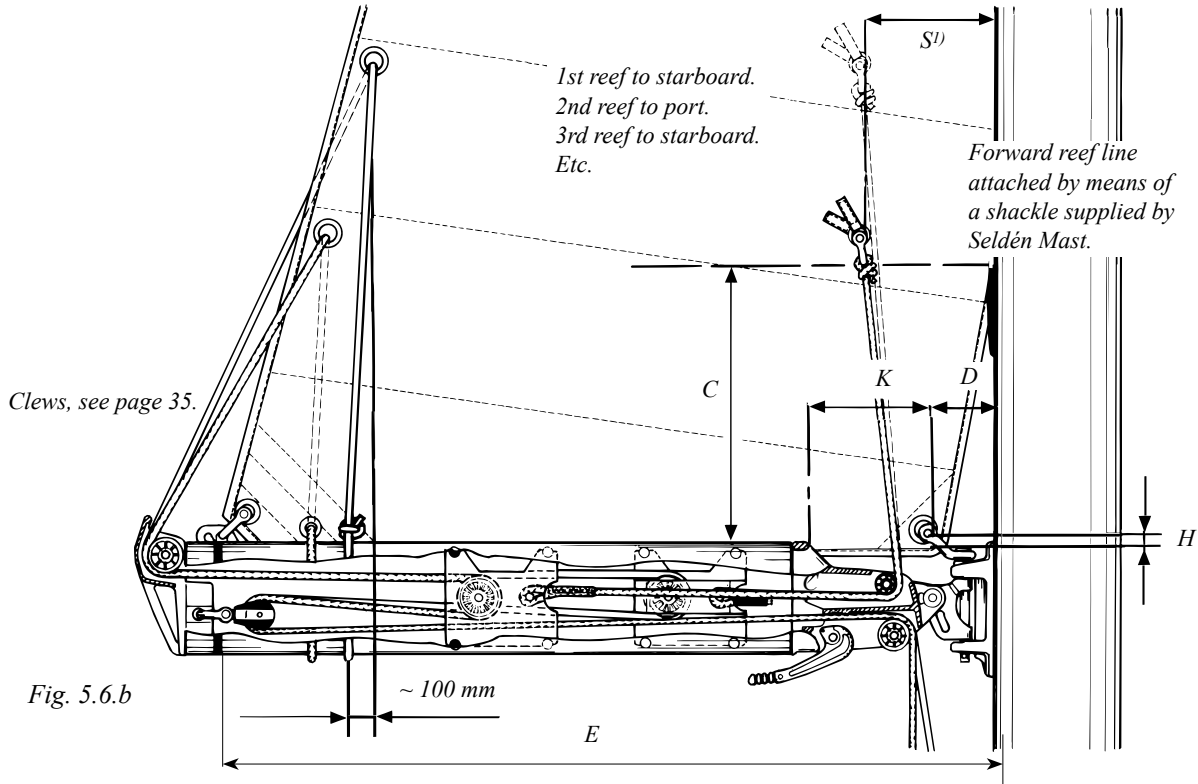


Fig. 5.6.b

	Boom section	Luff foot groove mm	Sail feeder gate "cut-back"		Tack		Single line reef S ¹⁾ mm	No. of internal reefing lines	Reef line attachment	Max height for reef 1 (Starboard) 3) mm	Max height for reef 2 (Port) 3) mm
			C mm	K mm	D mm	H mm					
	120/62	5.5 ± 0.75	830	215	75	10	120	Reef line attached as per fig. 5.6.a	E-1800	E-600	
	143/76		830	160	80	20	140		E-1800	E-700	
	171/94		830	190	80	20	150		E-1900	E-850	
	200/117	6.25 ± 0.75	830	250	100	20	190		E-2000	E-950	
	250/140		830	275	100	20	200		E-2500	E-1100	

1) The "S" measurement includes the shackle supplied by Seldén Mast.

2) Running Reef Hooks as shown on page 36 should be used for traditional 3rd and 4th slab reefs in conjunction with Single Line Reefs. If permanent reef hooks are used at the tack there is a risk that the sail can snag when a Single Line Reef is shaken out.

3) "Max height" information refer to forward reef cringle only.

Comprehensive instructions on Single Line reefs can be obtained from Seldén Mast; reference No 595-664-SET; (in Swedish, English and German).

C

5.7 Single line reef booms on C-mast from 2003 - 2007



Important!

1. The reefing line is tied as illustrated, with a bowline and running noose. No. 1 reef is shown. Note that grommets are required along the foot for each reef.
2. For loose-footed sails, the reef line loop must be held in the correct position along the boom, to ensure proper reefing. Seldén's eye slider can be used for this. (See table 5.13).

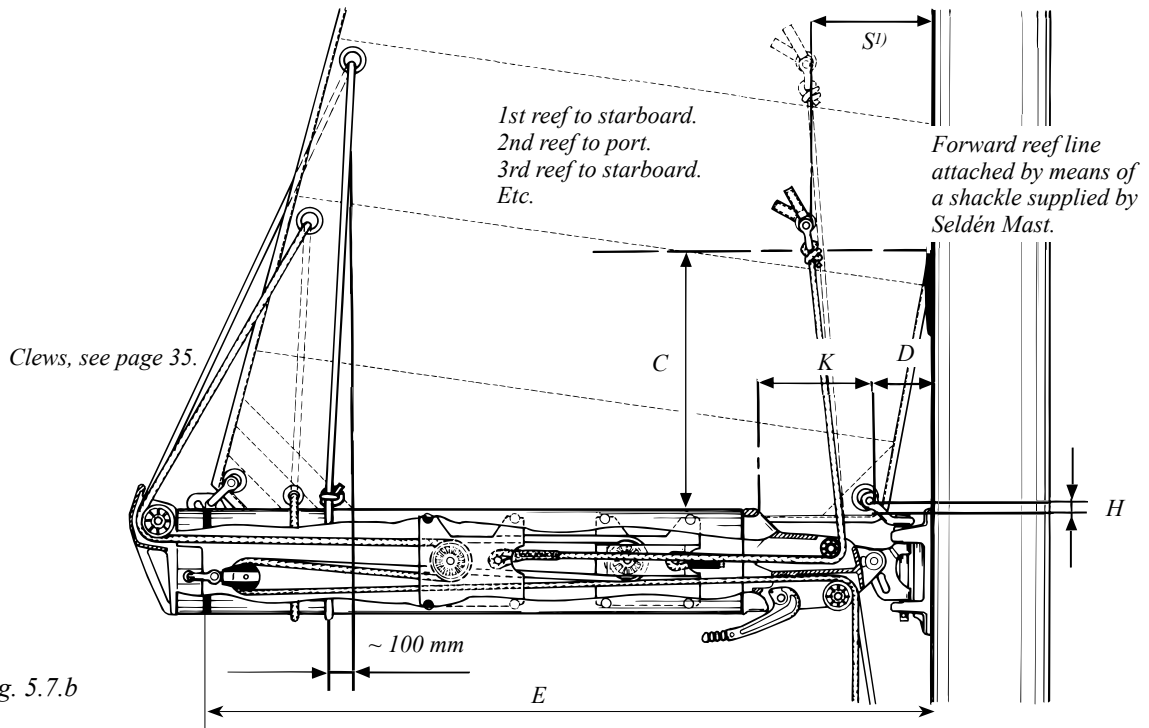
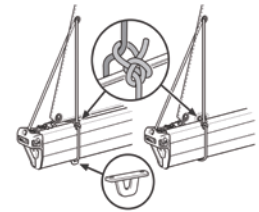


Fig. 5.7.b

Mast section	Boom section	Luff foot groove mm	Sail feeder gate "cut-back"			Tack			Single line reef S ¹⁾	No. of internal reefing lines	Reef line attachment	Max height for reef 1 (Starboard) ³⁾ mm	Max height for reef 2 (Port) ³⁾ mm
			C (MDS slides) mm	C (bolt rope) mm	K mm	D mm	H mm						
C156 C175 C193 C211 C227 C245		5.5 ± 0.75	130	850	150	80	35	120	2 single line + 1 flattening	Reefing line tied around boom; see fig. 5.7.a.	E-1800	E-600	
			110	830	165	80	20	140	2 single line + 1 traditional slab reef ²⁾		E-1800	E-700	
			110	830	195	80	20	150	2 single line + 2 traditional slab reefs ²⁾		E-1900	E-850	
		200/117	6.25 ± 0.75	110	830	270	80	20	190		2 single line + 2 traditional slab reefs ²⁾	E-2000	E-950
C264 C285 C304		5.5 ± 0.75	180	830	210	100	45	180	2 single line + 1 traditional slab reef ²⁾	E-1900	E-850		
			150	830	250	100	20	190	2 single line + 1 traditional slab reef ²⁾	E-2000	E-950		
		250/140	6.25 ± 0.75	150	830	275	100	20	200	2 single line + 1 traditional slab reef ²⁾	E-2500	E-1100	

1) The "S" measurement includes the shackle supplied by Seldén Mast.
 2) Running Reef Hooks as shown on page 36 should be used for traditional 3rd and 4th slab reefs in conjunction with Single Line Reefs. If permanent reef hooks are used at the tack there is a risk that the sail can snag when a Single Line Reef is shaken out.
 3) "Max height" information refer to forward reef cringle only.
 Comprehensive instructions on Single Line reefs can be obtained from Seldén Mast; reference No 595-664-SET, (in Swedish, English and German).

C

5.8 Single line reef booms on C-mast from 2008



Important!

1. The reefing line is tied as illustrated, with a bowline and running noose. No. 1 reef is shown. Note that grommets are required along the foot for each reef.
2. For loose-footed sails, the reef line loop must be held in the correct position along the boom, to ensure proper reefing. Seldén's eye slider can be used for this. (See table 5.13).

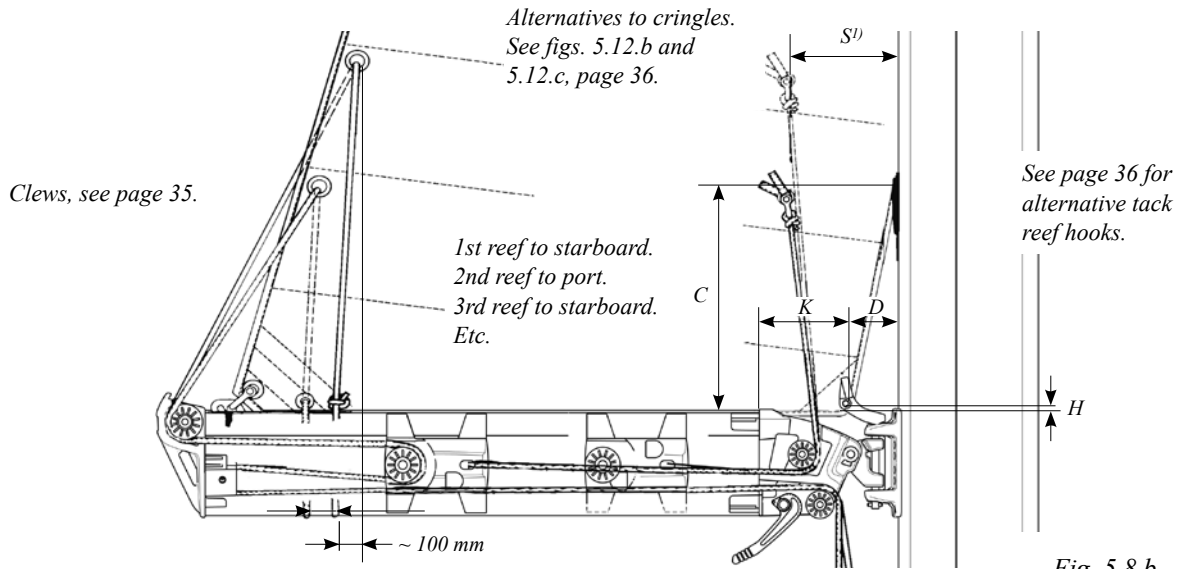
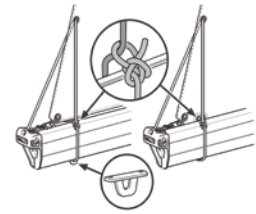


Fig. 5.8.b

Mast section	Boom section	Luff foot groove mm	Sail feeder gate "cut-back"			Tack		Single line reef S ¹⁾ mm	No. of internal reefing lines	Reef line attachment	Max height for reef 1 (Starboard) 3) mm	Max height for reef 2 (Port) 3) mm
			C (MDS slides) mm	C (bolt rope) mm	K mm	D mm	H mm					
C080 C087 C096 C106 C116 C126 C139	B087	5.5 ± 0.75	~	600	55	55	0	95	2 single line	Reefing line tied around boom; see fig. 5.8.a.	E-1650	E-450
		B104	5.5 ± 0.75	~	600	55	55	0	95			
	B120	5.5 ± 0.75	~	600	165	65	20	70	2 single line			
C126 C139												
C156	B087	5.5 ± 0.75	130	750	165	65	20	105	-		-	-
	B104											
C156 C175 C193 C211 C227 C245	B120	5.5 ± 0.75	130	750	150	80	35	70	2 single line + 1 flattening		E-1650	E-450
	B135	5.8 ± 0.75	130	750	105	80	30	165	2 single line + 1 traditional slab reef ²⁾		E-1800	E-650
		B152		120	750	105	80	20		165		E-1800
	B171	5.5 ± 0.75	110	750	120	80	15	165			E-1900	E-850
	B172	10 ± 0.8	110	750	100	80	20	150				
B200	6.25 ± 0.75	170	750	175	100	15	240	2 single line + 2 traditional slab reefs ²⁾		E-2000	E-950	
C264 C285 C304	B171	5.5 ± 0.75	180	750	135	100	45	200	2 single line + 1 traditional slab reef ²⁾		E-1900	E-850
		B172	10 ± 0.8	180	750	110	100	50		185		
	B200	6.25 ± 0.75	150	750	175	100	15	240	2 single line + 1 traditional slab reef ²⁾		E-2000	E-950
		B250		150	750	175	100	15		240		E-2500
	B290	10.25 ± 0.75	150	750	80	100	30	240			E-2900	E-1550

- 1) The "S" measurement includes the shackle supplied by Seldén Mast.
- 2) Running Reef Hooks as shown on page 36 should be used for traditional 3rd and 4th slab reefs in conjunction with Single Line Reefs. If permanent reef hooks are used at the tack there is a risk that the sail can snag when a Single Line Reef is shaken out.
- 3) "Max height" information refer to forward reef cringle only. Length is calculated on 16-plait reef line. For low stretch lines, reef height may be increased.

Comprehensive instructions on Single Line reefs can be obtained from Seldén Mast; reference No 595-664-SET, (in Swedish, English and German).

C

5.9 Slab reef - Match booms



Important!

1. The reefing line is tied as illustrated, with a bowline and running noose. No. 1 reef is shown. Note that grommets are required along the foot for each reef.
2. For loose-footed sails, the reef line loop must be held in the correct position along the boom, to ensure proper reefing. Seldén's eye slider can be used for this. (See table 5.13).

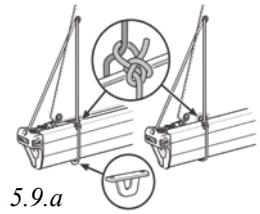
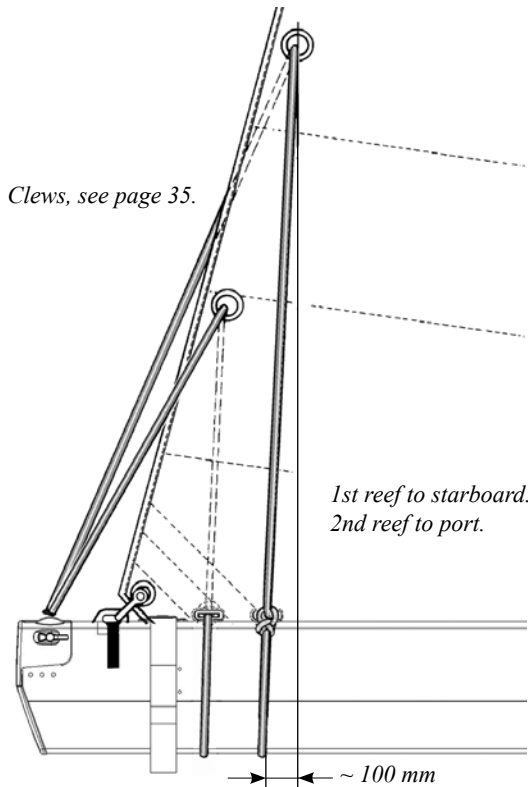
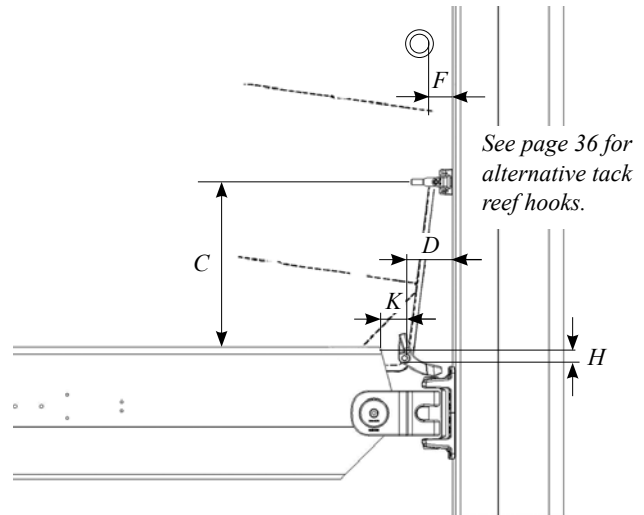


Fig. 5.9.a



Alternatives to cringles.
See figs. 5.12.b and 5.12.c, page 36.




See page 36 for alternative tack reef hooks.

Fig. 5.9.b

Mast section		Boom section	Luff foot groove mm	Sail feeder gate "cut-back"			Tack		Reef hooks	No. of internal reefing lines	Reef line attachment at aft end of boom
				C (MDS slides) mm	C (bolt rope) mm	K mm	D mm	H mm	F mm		
C175 C227		B190	+ 0.45 5.8 - 1.05	100	750	35	80	0	80	2 slab reefs	Reefing line tied around boom; see fig. 5.9.a.
C211 C245		B230	6.25 ± 0.75	80	750	45	80	20*	80	2 slab reefs	

* Tack shackle below top of extrusion.

5.10 Single line reef Match booms



Important!

1. The reefing line is tied as illustrated, with a bowline and running noose. No. 1 reef is shown. Note that grommets are required along the foot for each reef.
2. For loose-footed sails, the reef line loop must be held in the correct position along the boom, to ensure proper reefing. Seldén's eye slider can be used for this.

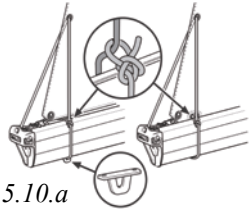


Fig. 5.10.a

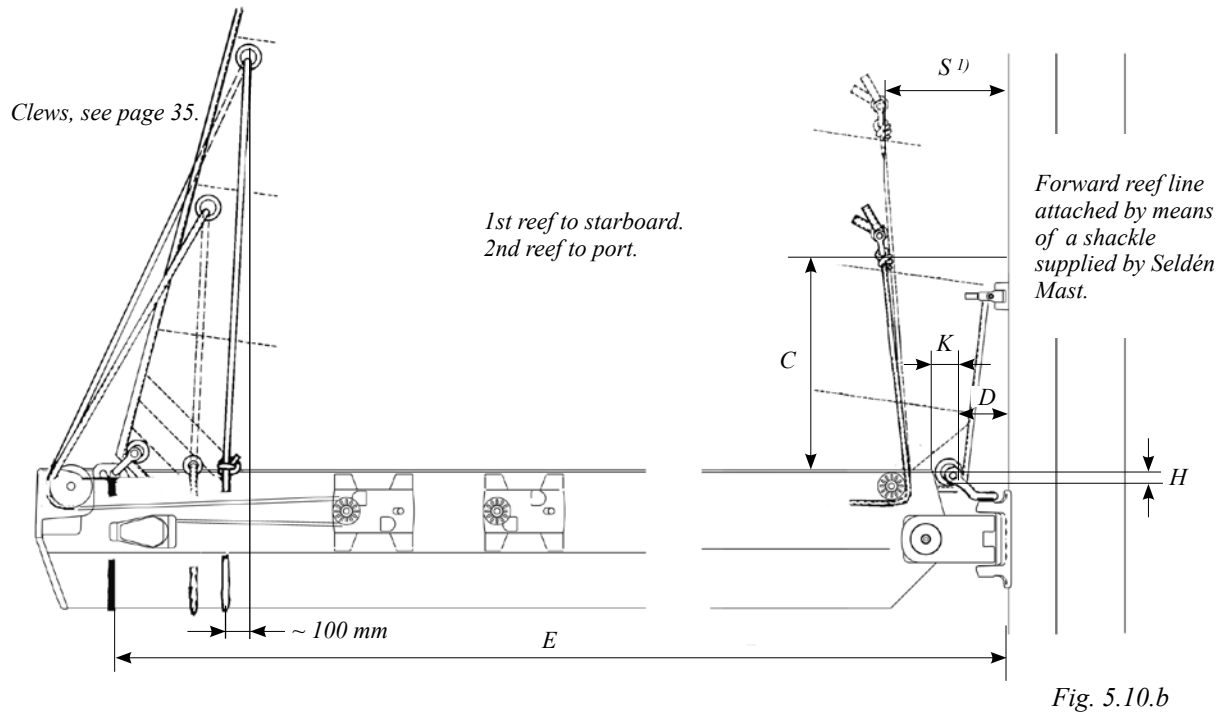


Fig. 5.10.b

Mast section	Boom section	Luff foot groove mm	Sail feeder gate "cut-back"			Tack			Single line reef S¹)	No. of internal reefing lines	Reef line attachment	Max height for reef 1 (Starboard) ³) mm	Max height for reef 2 (Port) ³) mm
			C (MDS slides) mm	C (bolt rope) mm	K mm	D mm	H mm						
C175 C227	B190	+ 0.45 5.8 - 1.05	100	750	35	80	0	180	2 slab reefs	Reefing line tied around boom;	E-1650	E-470	
C211 C245	B230	6.25 ± 0.75	80	750	45	80	20⁴)	195	2 slab reefs	see fig. 5.10.a.	E-1900	E-650	

1) The "S" measurement includes the shackle supplied by Seldén Mast.

2) Running Reef Hooks as shown on page 36 should be used for traditional 3rd and 4th slab reefs in conjunction with Single Line Reefs. If permanent reef hooks are used at the tack there is a risk that the sail can snag when a Single Line Reef is shaken out.

3) "Max height" information refer to forward reef cringle only. Length is calculated on 16-plait reef line. For low stretch lines, reef height may be increased slightly.

4) Tack shackle below top of extrusion.

Comprehensive instructions on Single Line reefs can be obtained from Seldén Mast; reference No 595-664-SET, (in Swedish, English and German).

D & E**5.11 Clews**

See page 38-44 for furling.

C

Outhaul cars or slides are supplied complete with shackles on all current Seldén booms. However, there are older booms from section series P 73/53–137/100 which were supplied without either. In these cases, the sail's clew is lashed to the boom end-fitting.

Fig. 5.11.a

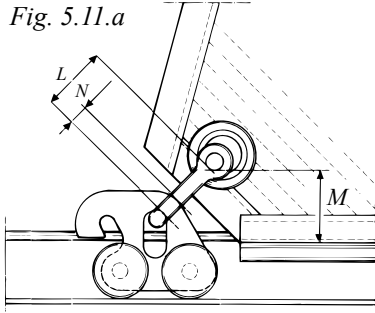
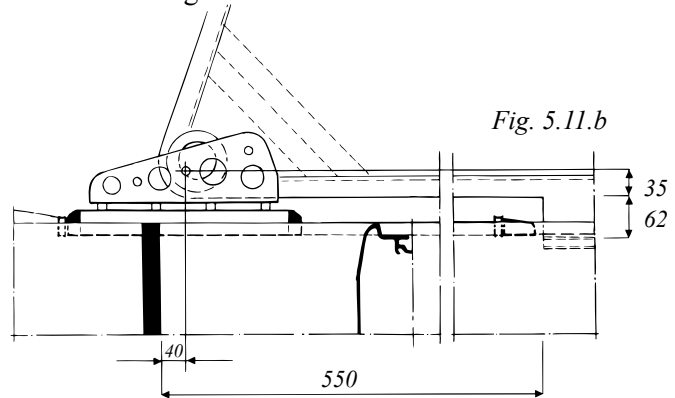


Fig. 5.11.b



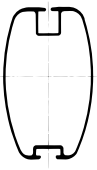

Boom	Outhaul car/slide Basic No.	Shackle L	M	N min.
111/81 137/100	507-701 	Ø 7 mm key shackle L = 40 mm 307-004	40 mm	11 mm
85/58 86/59	511-519 	Ø 5 mm key shackle L = 34 mm 307-001	40 mm	11 mm
111/75 128/90	507-602 	Ø 8 mm key shackle L = 44 mm 307-005	45 mm	13 mm
150/105 162/125		Ø 10 mm shackle L = 44 mm 307-024	45 mm	13 mm
189/132 206/139	507-603 	Ø 10 mm shackle L = 38 mm 307-024	45 mm	13 mm
B087 B104	507-612 	Ø 5 mm shackle L = 38 mm 307-045	35 mm	5 mm
B120	507-519 	Ø 8 mm shackle L = 35 mm 307-026	40 mm	8 mm
B135		Ø 8 mm shackle L = 35 mm 307-026	40 mm	8 mm
143/76	507-569 	Ø 8 mm shackle L = 35 mm 307-026	40 mm	10 mm
B152		Ø 8 mm shackle L = 35 mm 307-026	40 mm	10 mm
B171		Ø 10 mm shackle L = 38 mm 307-024	45 mm	10 mm
B172	511-503	Ø 10 mm shackle L = 38 mm 307-024	45 mm	10 mm
B190		Ø 10 mm shackle L = 38 mm 307-024	45 mm	10 mm
B200 B230 B250	511-570 	Ø 10 mm shackle L = 38 mm 307-024	50 mm	14 mm
B200 B250	511-617 	pin Ø 12 x 33 165-402 jaw width: 20 mm	See fig. 5.11.b	
B300	511-588	pin Ø 12 x 37 165-409 jaw width: 23 mm		
B290	511-648 	Ø 12 mm shackle L = 41 mm 307-004	55 mm	12 mm

D & E

5.12 Running reef-hooks

C

”Running” reef-hooks may be used as an alternative to fixed hooks.

	Boom section	Reef hooks	
		F mm	
	120/62	120	See page 25-34 for other tack data.
	135/72	120	
	143/76	120	
	152/84	120	
	171/94	120	
	B172	120	
	200/117	130	
250/140	130		
	290/155	130	Use "Alternative to cringles second alternative" (Fig. 5.12.c)
	300/155		

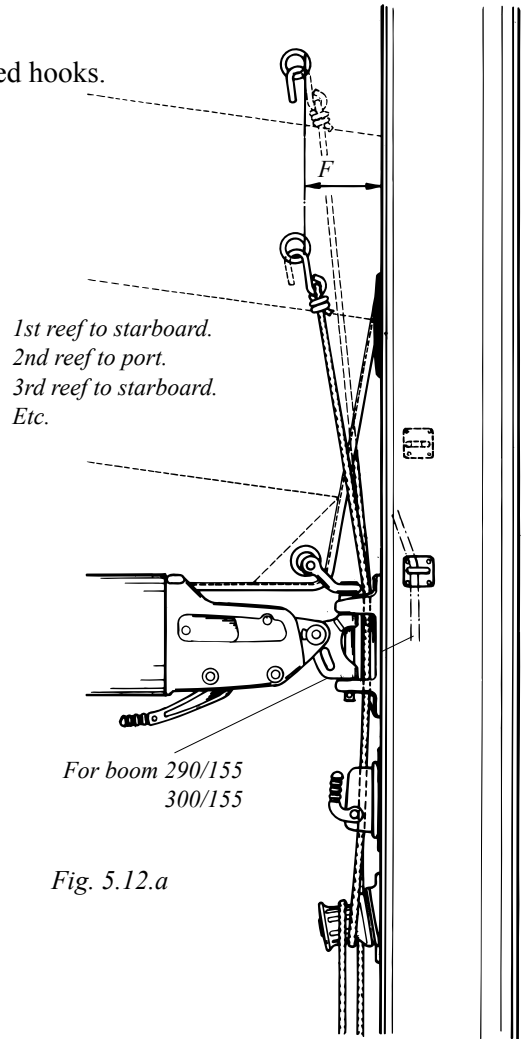


Fig. 5.12.a

Alternatives to cringles

First alternative

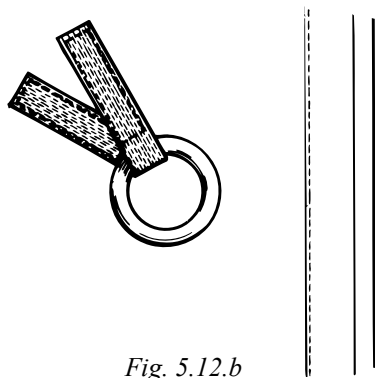


Fig. 5.12.b

Is used when the reefing line is attached with a shackle, such as for ”Single Line Reefing”.

Second alternative

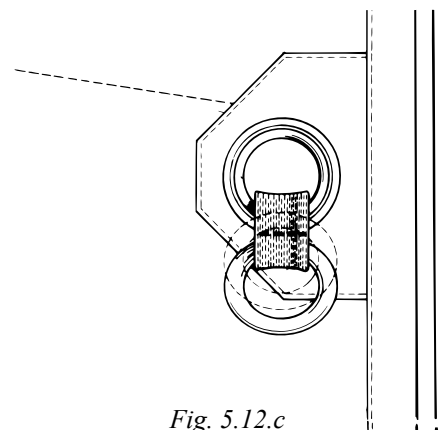
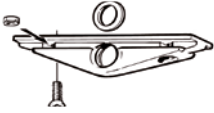
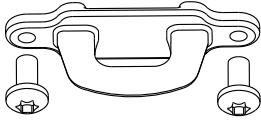

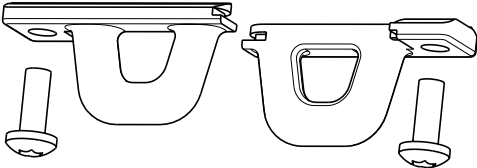


Fig. 5.12.c

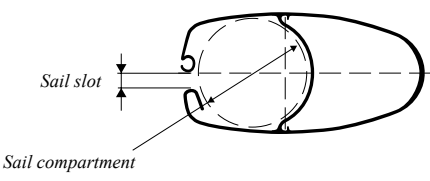
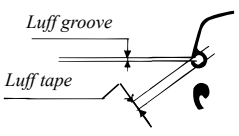
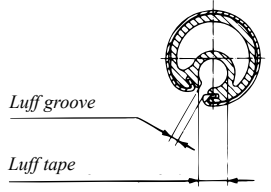
Improves handling when the sail is to be reefed to a permanent tack reef-hook.

5.13 Boom sliders - eye

Boom section	T-track width	Part no.	Sliders
86/59 B087 B104	16 mm	511-555-02	Composite slider 
B087 B104	20 mm	511-641-01	Stainless steel slider 
B120 B135 B152 B171 B172	25 mm	511-571-01	Stainless steel slider 
B200 B250 B290 B300	32 mm	511-572-01	
B120 B135 B152 B171 B172 B190	25 mm	511-636-01	Divisible sliders for retro fit directly into the track. (Composite) 
B200 B250 B290 B300 B230	32 mm	511-637-01	

6 Furling mast

6.1 R section: manual, hydraulic and electro (1989 - 2002)

Mast section							Luff extrusion			
										
Mast section	Sail compartment	Sail slot	Max foot length E max ⁴⁾	Spare luff groove in mast			Type	Dia-meter	Luff groove	Max space for luff tape
				Luff groove	Max space available for luff tape	Slide				
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
190/94 213/104 235/116	Ø 85 Ø 90 Ø 100	13.5 ± 3	3750 4000 4500	3.25	Ø 7.2	—	RA	Ø 25	2.75 ± 0.25	Ø 6.0
214/122 232/126 260/136	Ø 110 Ø 114 Ø 114	15 ± 3	4750 5500 5500	3.25	Ø 10.0	Bainbridge AO32	RB	Ø 30	3.25 ± 0.35	Ø 8.0 ¹⁾
290/150 324/169 ³⁾	Ø 124 Ø 154	15 ± 3	6000 7000	3.25 4.0	Ø 10.0 Ø 12.0	Bainbridge AO32 Bainbridge AO32 or Rutgerson 101	RC	Ø 38	3.25 ± 0.25	Ø 10 ²⁾
370/192 ³⁾	Ø 174	15 ± 3	7500	3.3	Ø 13.0	Bainbridge AO33 or Rutgerson 102	RD	Ø 58	3.25 ± 0.25	Ø 10

1) 1995 and earlier: Ø 10

2) Max Ø7 mm luff tape due to new sail feeder (2001).

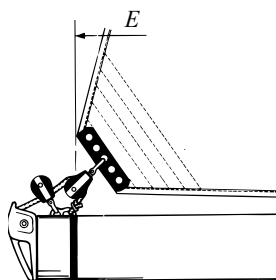
3) For more performance oriented furling main sails with a lot of shape and/or stiffer (non-dacron) sail cloth, and for sails with horizontal battens, an optional sail guide can be provided (art. no 535-811-01).

4) When the sail is fully furled, 300 mm of Emax will remain outside the mast due to reinforcement and clew-board. Note! Listed values are MAX VALUES for DACRON® main sails designed primarily for easy furling and reefing. For more performance oriented sails with more shape and stiffer sail cloth, max foot length will be reduced depending on sail design and sail cloth.

5) Note! Spare main sail entry is an optional feature from 2012 and onwards.

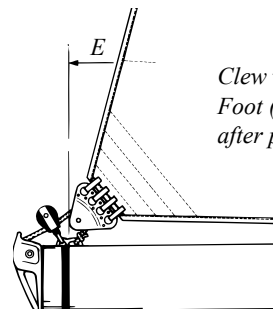
Design aspects on furling main sails, see page 44.

Alternative clew executions



*Clew with clew-board:
Foot ("E") measured to after point of sail.
Clew-board gives longer effective ("E") than integrated block or normal cringle.*

Fig. 6.1.a



*Clew with integrated block:
Foot ("E") measured to after point of block.*

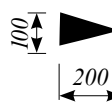
Fig. 6.1.b

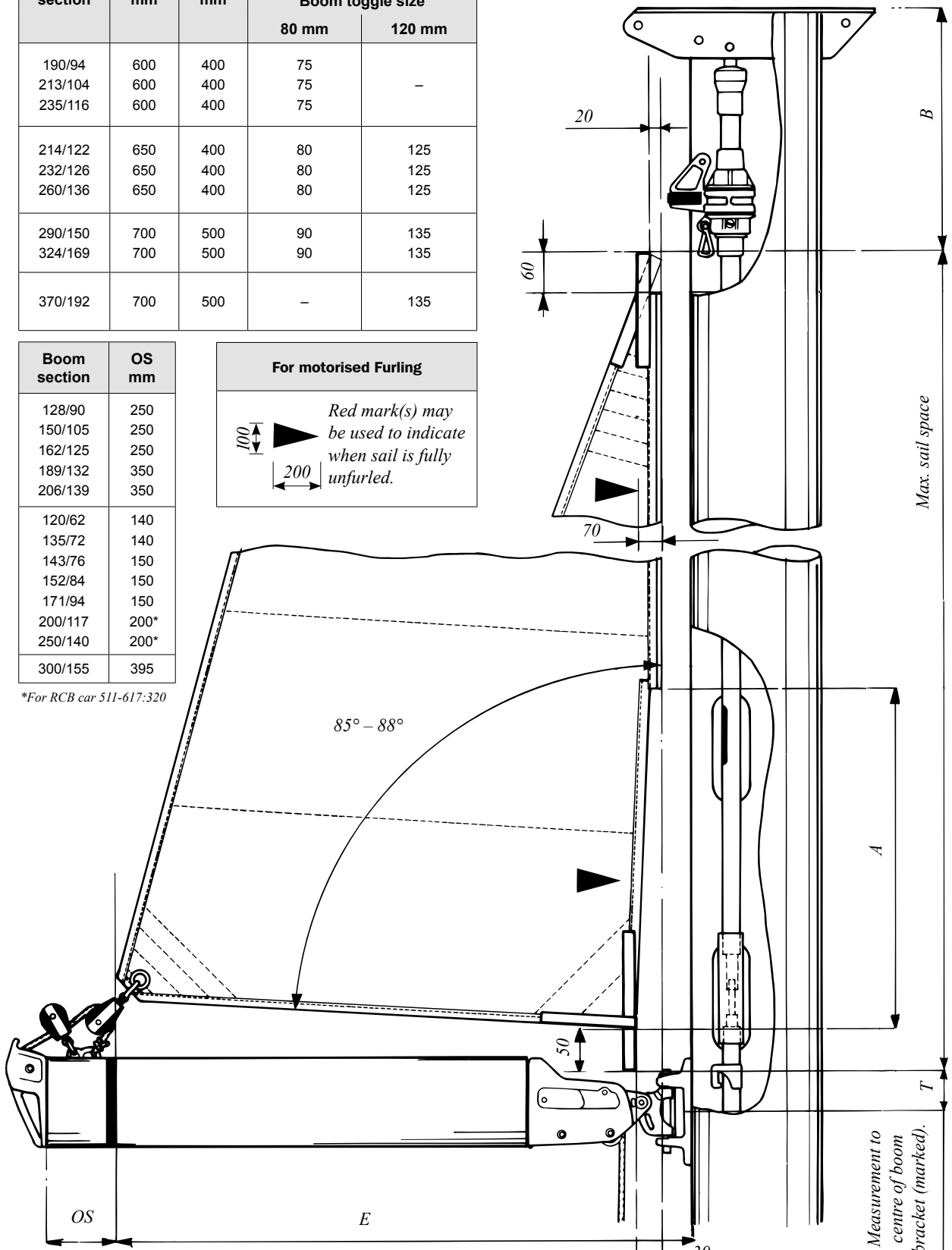
R

Mast section	A mm	B mm	T mm	
			Boom toggle size	
			80 mm	120 mm
190/94	600	400	75	-
213/104	600	400	75	-
235/116	600	400	75	-
214/122	650	400	80	125
232/126	650	400	80	125
260/136	650	400	80	125
290/150	700	500	90	135
324/169	700	500	90	135
370/192	700	500	-	135

Boom section	OS mm
128/90	250
150/105	250
162/125	250
189/132	350
206/139	350
120/62	140
135/72	140
143/76	150
152/84	150
171/94	150
200/117	200*
250/140	200*
300/155	395

For motorised Furling


 Red mark(s) may be used to indicate when sail is fully unfurled.




*For RCB car 511-617:320

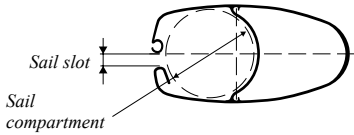
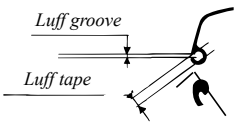
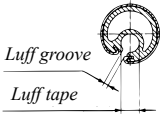
Fig. 6.1.c

Measurement to centre of boom bracket (marked).

F

6.2 F section: manual, hydraulic and electro (2003 - →)

Sections		Section dimm. X/Y mm	I _y cm ⁴	I _x cm ⁴	Wall thickness, mm	Weight kg/m	W _y min cm ³	W _x min cm ³
	F176	176/93	526	187	2.90	4.12	58.2	40.0
	F194	194/101	709	254	3.05	4.69	70.8	49.8
	F212	212/109	970	337	3.15	5.45	88.2	61.8
	F228	228/118	1306	453	3.4	6.30	112	76.8
	F246	246/126	1781	613	3.75	7.37	139	97.3
	F265	265/135	2392	828	4.15	8.66	173	122
	F286	286/146	3237	1122	4.5	10.02	220	154
	F305	305/156	4389	1513	5.05	11.75	276	194
	F324	324/169	5576	2056	5.5	13.8	329	243
	F370	370/192	8835	3149	5.8	16.6	468	326
F406	408/207	14321	4725	6.5	19.34	671	451	

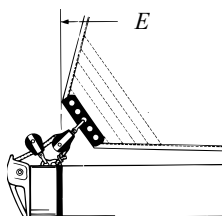
Mast section							Luff extrusion					
												
Section	Sail compartment mm	Max foot length E max ¹⁾ mm		Sail slot mm	Spare luff groove in mast			Type mm	Dia-meter mm	Luff groove mm	Max space for luff tape mm	
		RA	RB		Luff groove mm	Max space available for luff tape mm	Slide mm					
F176	Ø 85	RA	3750	15±3	3.25±0.25	6	-	RA	Ø 25	2.75±0.25	Ø 6	
F194	Ø 93	RA	4200			8	Bainbridge AO31					
F212	Ø 100	RA	4500			17±3	10	Bainbridge AO32	RB	Ø 30	3.25±0.35	Ø 8
F228	Ø 108	RB	4400									
F246	Ø 114	RB	5400	RD	4±0.25				Bainbridge AO32	Ø 38	Ø 7 ²⁾	
F265	Ø 123	RC	5800									
F286	Ø 133	RC	6300									
F305	Ø 141	RB	6900	20±3	4±0.25	Bainbridge AO32	Ø 58	Ø 10				
F324	Ø 154	RC	7000									
F370	Ø 174	RD	7500									
F406	Ø 190	RD	9500	22±3	6.5±0.5	15	Bainbridge AO33					

Note: For more performance oriented furling main sails with a lot of shape and/or stiffer (non-dacron) sail cloth, and for sails with horizontal battens, an optional sail guide can be provided

- 1) When the sail is fully furled, min 300 mm of Emax will remain outside the mast due to reinforcement and clew-board. Note! Listed values are MAX VALUES for DACRON® main sails designed primarily for easy furling and reefing. For more performance oriented sails with more shape and stiffer sail cloth, max foot length will be reduced depending on sail design and sail cloth.
- 2) For systems older than 2001 (without stainless sailfeeder), max space Ø 10 mm.
- 3) Note! Spare main sail entry is an optional feature from 2012 and onwards.

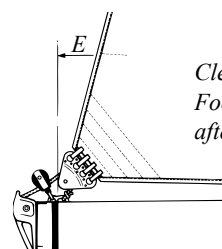
☐ Design aspects on furling main sails, see page 44.

Alternative clew executions



Clew with clew-board:
Foot ("E") measured to after point of sail.
Clew-board gives longer effective ("E") than integrated block or normal cringle.

Fig. 6.2.a



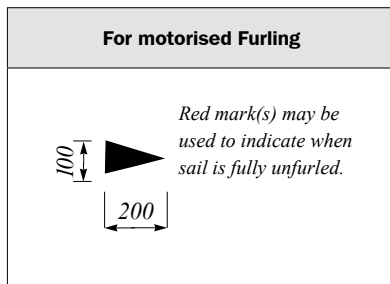
Clew with integrated block:
Foot ("E") measured to after point of block.

Fig. 6.2.b

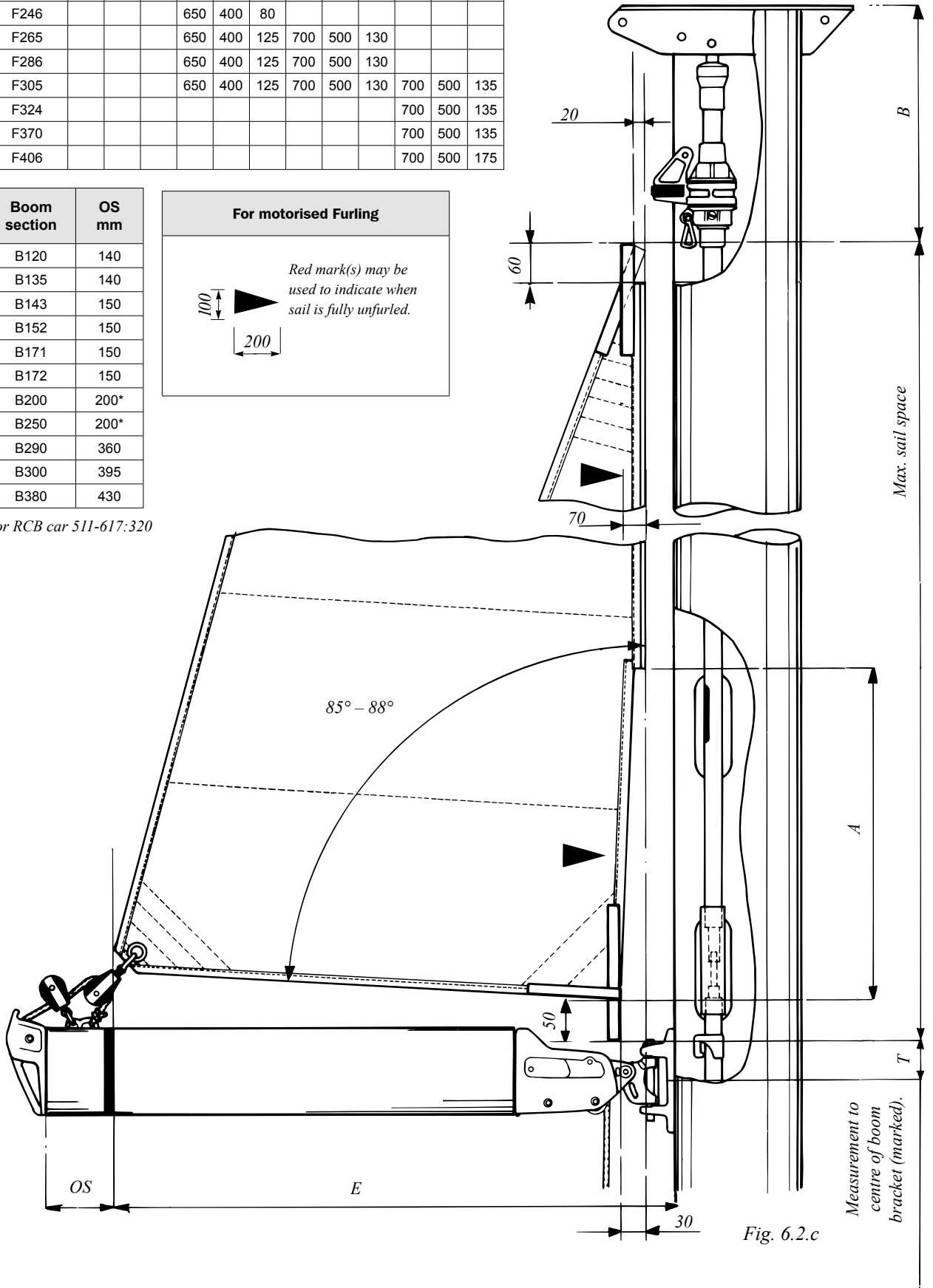
F

Mast section	RA			RB			RC			RD		
	A	B	T	A	B	T	A	B	T	A	B	T
F176	600	400	80									
F194	600	400	80									
F212	600	400	80	650	400	80						
F228	600	400	80	650	400	80						
F246				650	400	80						
F265				650	400	125	700	500	130			
F286				650	400	125	700	500	130			
F305				650	400	125	700	500	130	700	500	135
F324										700	500	135
F370										700	500	135
F406										700	500	175

Boom section	OS mm
B120	140
B135	140
B143	150
B152	150
B171	150
B172	150
B200	200*
B250	200*
B290	360
B300	395
B380	430

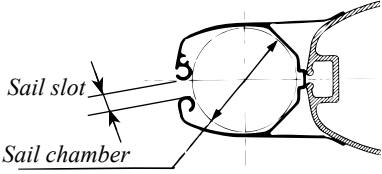
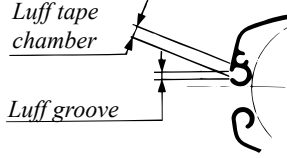
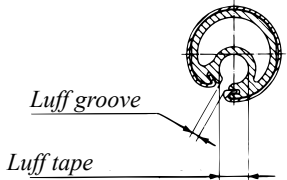


*For RCB car 511-617:320



6.3 Furlex Main - Retro-fit system

(Production of this product range discontinued 2003).

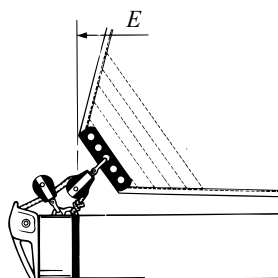
Furlex Main – Other section							Luff extrusion			
										
Furlex Main Type	Sail chamber	Sail slot	Max. foot length recommended ¹⁾ "E"	Spare luff groove in mast			Type	Dia-meter	Luff groove	Max space for luff tape
				Luff groove	Max space available for luff tape	Slide				
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
Type 76 Type 90	Ø 76 Ø 90	13.5 ± 3	3500 4000	3.25 3.25	Ø 9.4 Ø 9.4	Bainbridge AO31 or Rutgerson 101	RA	Ø 25	2.75 ± 0.25	Ø 6.0
Type 108	Ø 108	15 ± 3	5000	3.25	Ø 10.0	Bainbridge AO32 or Rutgerson 101	RB	Ø 30	3.25 ± 0.35	Ø 8*

¹⁾ Note! Listed values are MAX VALUES for DACRON[®] main sails designed primarily for easy furling and reefing. For more performance oriented sails with more shape and stiffer sail cloth, max foot length will be reduced depending on sail design and sail cloth.

*1995 and earlier: Ø 10

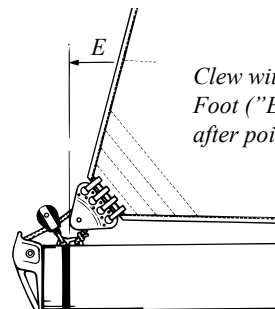
- The luff extrusion is asymmetrically shaped in order to help overcome initial resistance when starting to furl. Do not use heavy sail-cloth in the luff area.
- Head and tack webbing bands should be of soft quality which can fold easily. 20 mm is a suitable width. Do not use metal cringles on them.
- Battens must be located on the port side of the sail so as not to snag on the inside of the sail compartment.
- If clew cringles are used they must not be thicker than 14 mm in order to fit the outhaul block.
- The upper part of the luff extrusion will be kept centered by the halyard swivel, while most of the section will rest on the aft face of the sail compartment when sailing. The luff curve must have a wedge formed into it for compensation (0 to 30 mm) at the upper 500–800 mm of the luff.

Alternative clew executions



Clew with clew-board:
Foot ("E") measured to after point of sail.
Clew-board gives longer effective ("E") than integrated block or normal cringle.

Fig. 6.3.a



Clew with integrated block:
Foot ("E") measured to after point of block.

Fig. 6.3.b

Furlex-Main Type	A	B	T	OS
76	600	270	60	180
90	600	270	60	180
108	650	270	65	260

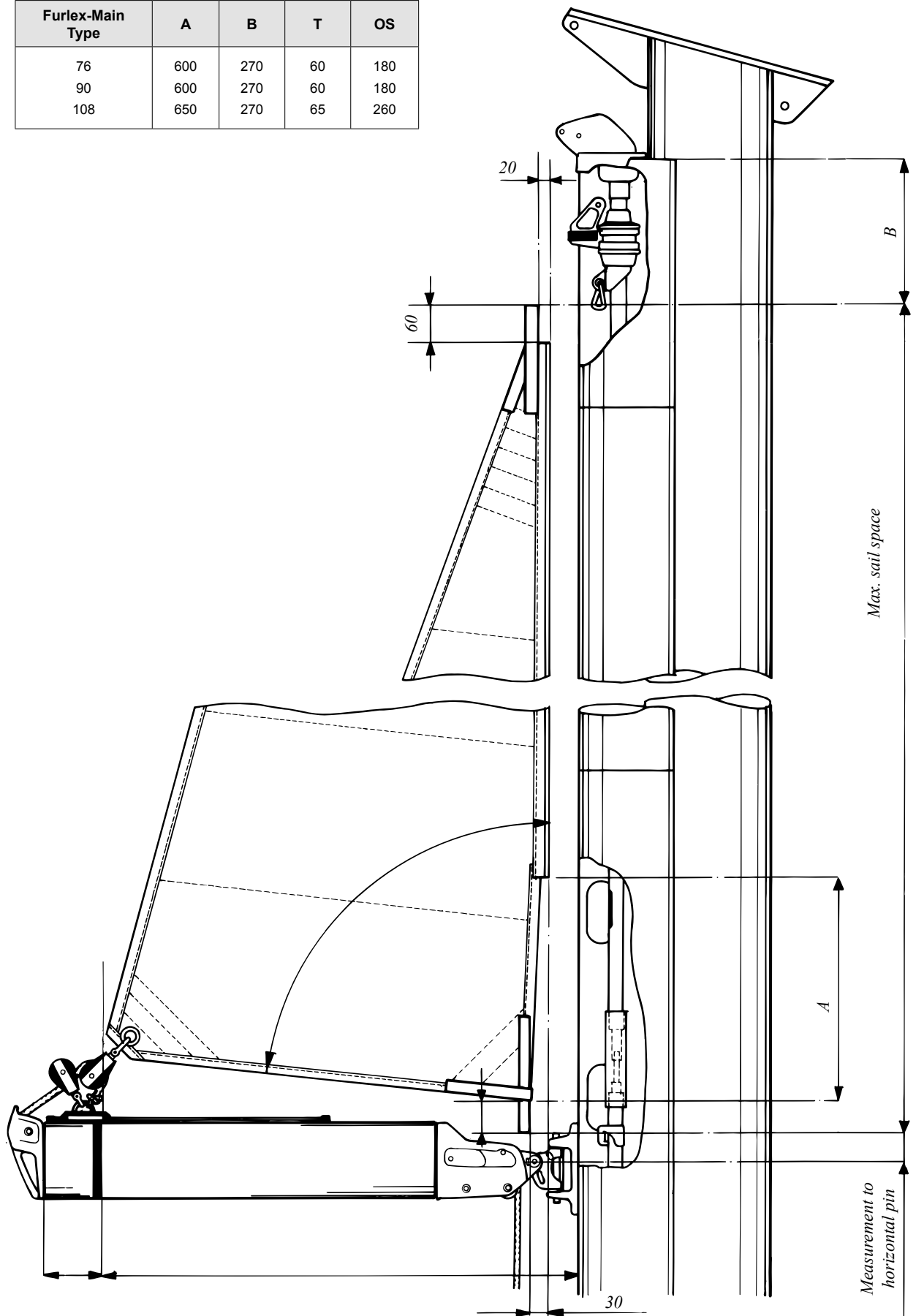


Fig. 6.3.c

6.4 Design aspects on furling mast main sails

Sail cloth type

In general, single layer cloth (e.g. Dacron™) folds easier around the luff extrusion than multi-layer laminate cloth, causing less furling resistance. "Softer" sail cloth therefore allows more sail to be furled into the mast. Sail cloth generally becomes softer with time, so a new sail can cause more furling resistance than a sail that has been used for some time.

Sail cloth disposition

The luff extrusion is asymmetrically shaped in order to help overcome initial resistance when starting to furl. Do not use heavy sail cloth in the luff area.

Clew height

A furling main sail foot should rise towards the clew, approximately 85°–88° (see e.g. fig. 6.2.c). This increases leech tension when furling and prevents the lower part of the sail roll becoming too bulky. Note that when the sail is furled, the weight of the sail may cause the clew to move downwards.

Luff curve shape

The upper part of the luff extrusion will be kept centered by the top swivel, while most of the luff extrusion will rest on the aft face of the sail compartment when sailing. The luff curve must have a wedge formed into it for compensation (0- to 30 mm) at the upper 500 – 800 mm of the luff.

Clew reinforcement

The clew reinforcement should be made so that it allows the sail to be furled in leaving approximately 300 – 500 mm outside the mast.

Webbing tape

Head and tack webbing tapes should be of soft quality which can fold easily. Do not use cringles.

Luff tape

Avoid using luff tape close to head and tack. The high loads in head and tack may damage the luff tape. (See e.g. fig. 6.2.c)

Clew cringles

If clew cringles are used they must not be thicker than 14 mm in order to fit the outhaul block.

Batten types

The main batten types used in furling main sails are: full-length vertical battens, short vertical battens and horizontal (foldable) battens. Experience has shown that vertical battens work very well whereas horizontal battens have a tendency to snag in the sail slot when the sail is furled out. For more performance oriented furling main sails with

a lot of shape and/or stiffer (non-dacron) sail cloth, and for sails with horizontal battens, an optional sail guide (art. no 535-811-01) can be provided (see fig. 6.4.a).

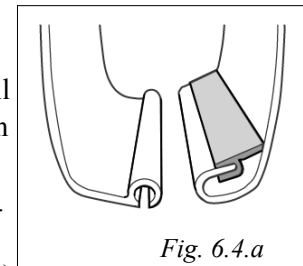


Fig. 6.4.a

If full-length vertical battens are used, round battens generally work better than square battens since square battens can twist. If short vertical battens are used, square battens often work well and are usually less bulky.

Batten location

Battens must be located on the port side of the sail so as not to snag on the inside of the sail compartment.

End fittings, connectors and tensioning arrangement

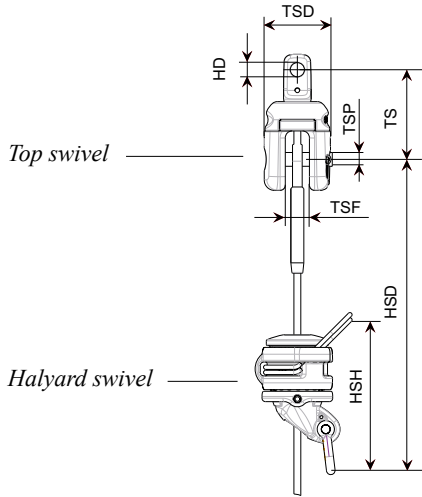
End fittings, connectors and tensioning arrangement (vertical battens) should be made as slim as possible. Bulky solutions may cause the battens to snag in the sail slot.

Short vertical battens – vertical displacement

Short vertical battens should be located so that they do not overlap each other vertically. The lowest batten should not overlap the clew reinforcement.

7 Furlex - Seldén jib furling and reefing system

7.1 Furlex, 20S-40S



As Furlex 20S, 30S and 40S has no luff extrusion these models are not suitable for reefing.

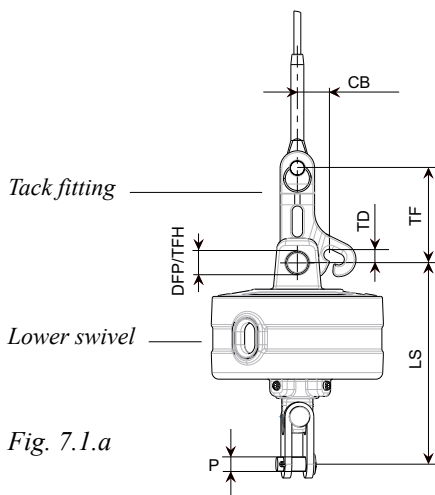


Fig. 7.1.a

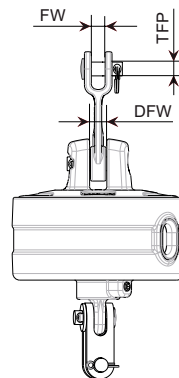


Fig. 7.1.b

Measurement	Code	Furlex 20S	Furlex 30S	Furlex 40S
Top Swivel Height	TS	35	52	52
Top Swivel Diameter	TSD	Ø 26	Ø 39	Ø 39
Top Swivel Pin	TSP	Ø 6	Ø 8	Ø 8
Top Swivel Fork	TSF	10	14	14
Upper Hole Dia	HD	Ø 5,5	Ø 8,5	Ø 8,5
Halyard Swivel Height	HSH	-	90	90
Halyard Swivel Deduction	HSD	-	180	180
Tack Fitting height	TF	-	55	55
Tack Fitting Fork Width	FW	-	8	8
Tack Fitting Pin	TFP	-	Ø 8	Ø 8
Tack Fitting Hole	TFH	-	Ø 8,5	Ø 8,5
Cut Back	CB	-	20	20
Tack Deduction	TD	-	10	10
Lower Swivel Height	LS	60	106	117
Drum Fork Width	DFW	9	10	10
Drum Fork Pin	P	5,8	8	8

7.2 Furlex 50S-500S

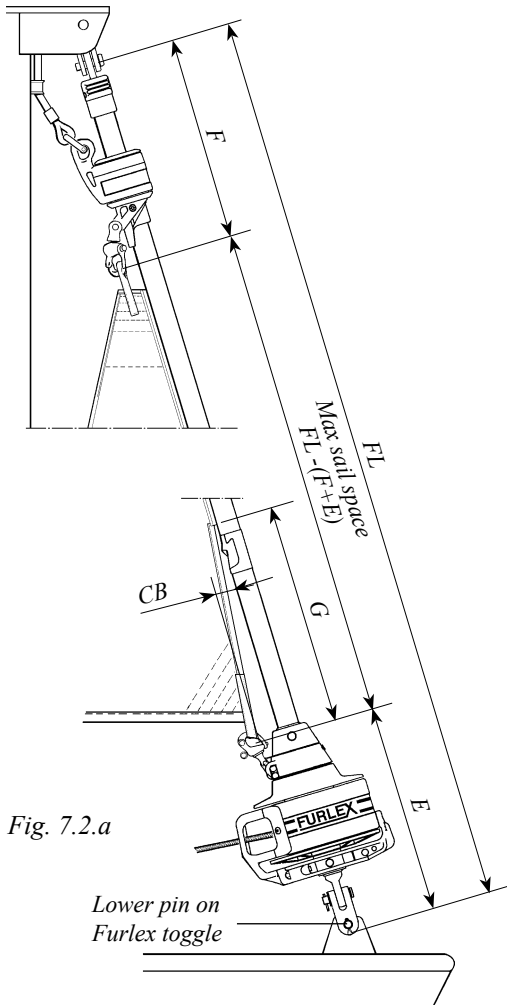



Fig. 7.2.a



Sails with a luff considerably shorter (more than 500 mm) than the maximum permissible must be fitted with a permanent head pendant. The total luff length including pendant should be just less than the "Max. sail space" dimension. A too short luff length (including head pendant) can result in "halyard wrap" which may cause severe damage to the forestay, and put the entire rig at risk. For more information please refer to "Sail information" in the relevant Furlex manual.

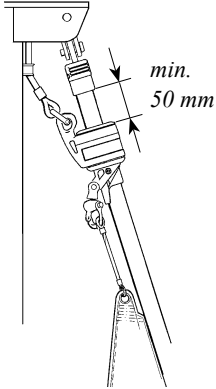


Fig. 7.2.b

Furlex 50S

Furlex 100S - 500S

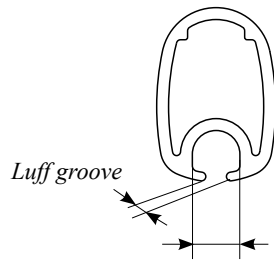


Fig. 7.2.c

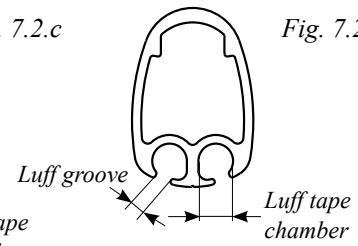
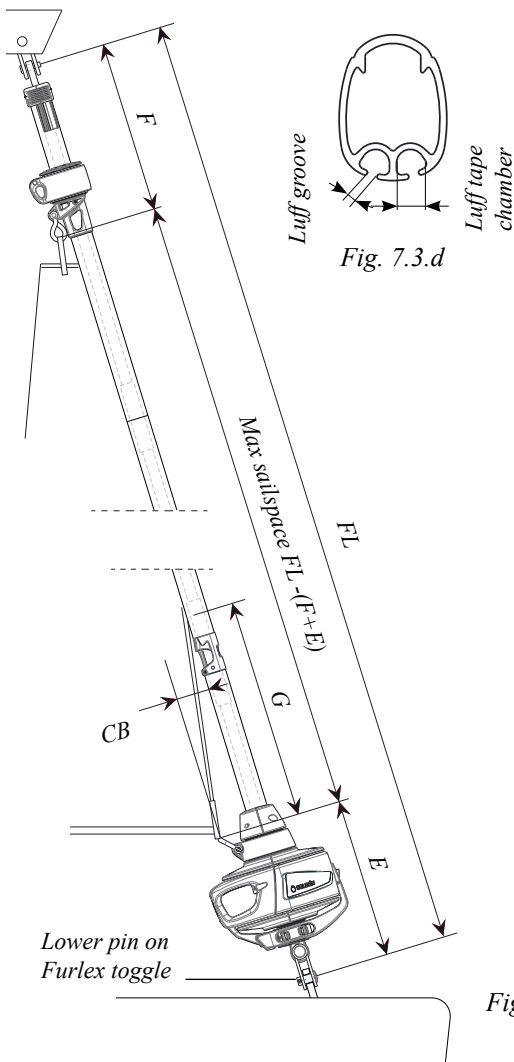


Fig. 7.2.d

Furlex Type/Serie	Section dimension	Luff groove mm	Max. space available in chamber mm	Max. luff tape mm	Cut-back CB mm	Cut-back height G mm	Maximum sail space FL-(F+E) (Measurement calculated from existing forestay length: FL).			
							F mm	E mm	F+E mm	
Manual	A	26/17	3.0	∅ 6	∅ 5	60	1100	360	280	640
	B	31/20	3.0	∅ 6	∅ 5	60	1100	390	340	730
	C	40/27	3.0	∅ 7	∅ 6	80	1100	540	420	960
	D	50/34	3.0	∅ 8	∅ 6	100	1100	620	490	1110
	50S	22/15	2.6	∅ 6	∅ 5	25	630	360	215	575
	100S ∅ 4 & 5	26/17	3.0	∅ 6	∅ 5	60	1100	410	280	690
	100S ∅ 6	26/17	3.0	∅ 6	∅ 5	60	1100	425	295	720
	200S	31/21	3.0	∅ 6	∅ 5	60	1100	540	330	870
	300S ∅ 8	39/27	3.0	∅ 7.5	∅ 6.5	80	1100	550	400	950
	300S ∅ 10	39/27	3.0	∅ 7.5	∅ 6.5	80	1100	650	400	1050
	400S	48/34	3.0	∅ 8	∅ 6.5	95	1100	620	535	1155
500S	60/46	3.0	∅ 9	∅ 7	95	1100	670	535	1205	

This data is also valid for Furlex Electric.

7.3 Furlex 104S-404S (2014-) & Furlex Electric (2018-)



Sails with a luff considerably shorter (more than 500 mm) than the maximum permissible must be fitted with a permanent head pendant. The total luff length including pendant should be just less than the "Max. sail space" dimension. A too short luff length (including head pendant) can result in "halyard wrap" which may cause severe damage to the forestay, and put the entire rig at risk. For more information please refer to "Sail information" in the relevant Furlex manual.

Fig. 7.3.b

Furlex 104S/204S Mk2/304S Mk2/404S halyard swivel.

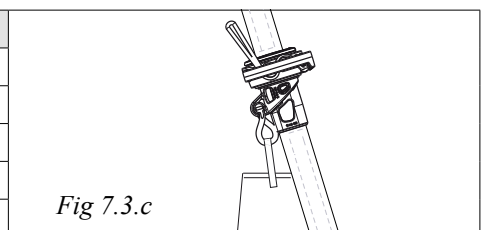
Don't make the sail too short. Incorrect halyard routing can cause the halyard shackle to wear against the luff extrusion.

Fig. 7.3.c

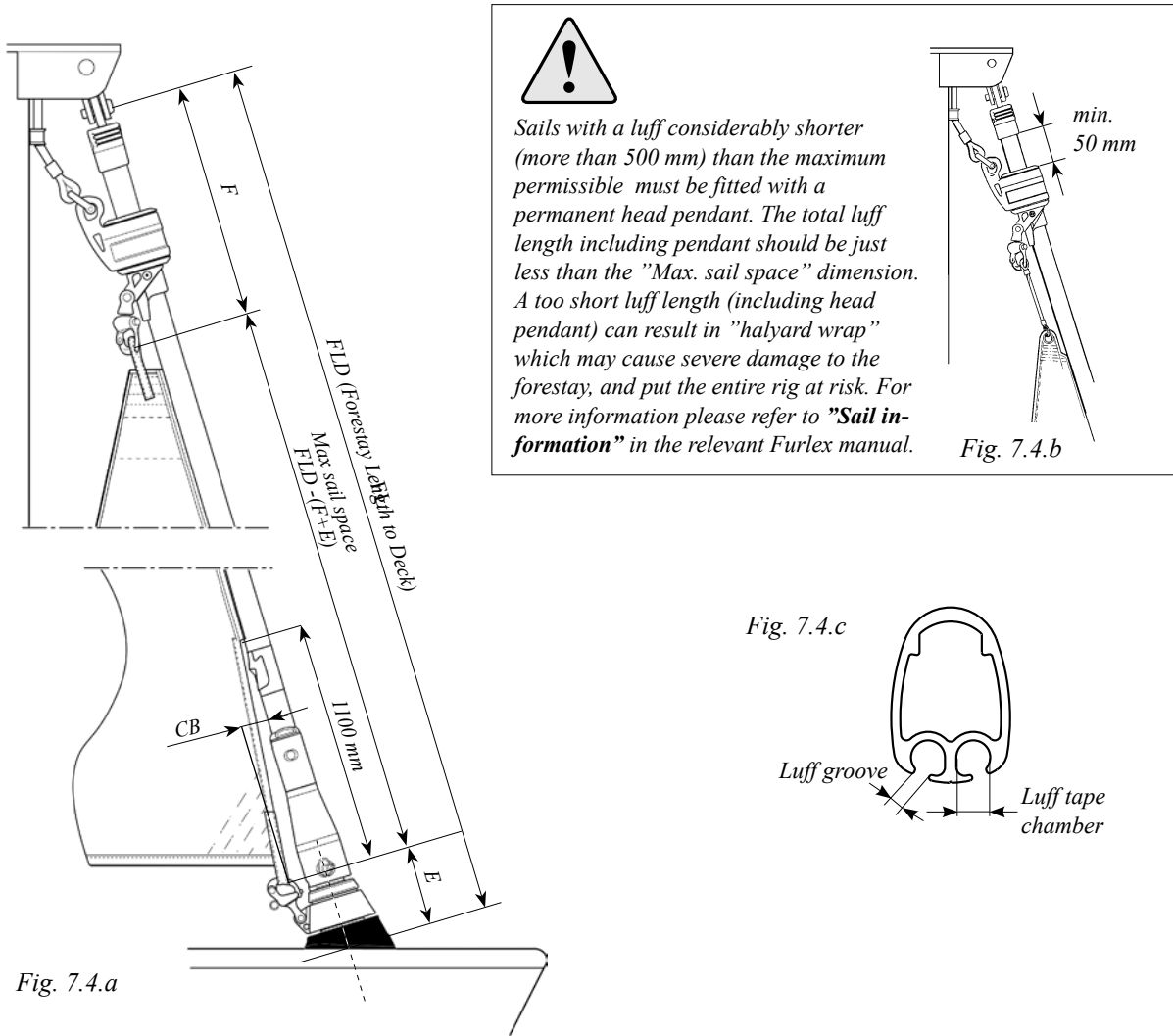
Furlex Type/Serie	Section dimension	Luff groove mm	Max. space available in chamber mm	Max. luff tape mm	Cut-back CB mm	Cut-back height G mm	Maximum sail space FL-(F+E) (Measurement calculated from existing forestay length: FL).			
							F mm	E mm	F+E mm	
Manual	104S Ø 4 & 5	30/20	2.75	Ø 6	Ø 5	60	1100	440	205	645
	104S Ø 6	30/20	2.75	Ø 6	Ø 5	60	1100	440	220	660
	204S Ø 6	35/25	3.0	Ø 6	Ø 5	60	1100	425	265	690
	204S Ø 7	35/25	3.0	Ø 6	Ø 5	60	1100	425	265	690
	204S Ø 8	35/25	3.0	Ø 6	Ø 5	60	1100	425	275	700
	304S Ø 8	42/31	3.0	Ø 7	Ø 6.5	60	1100	430	310	740
	304S Ø 10	42/31	3.0	Ø 7	Ø 6.5	60	1100	530	315	845
	404S Ø 12	52/38	3.0	Ø 8	Ø 6.5	80	1100	630	390	1020
404S Ø 14	52/38	3.0	Ø 8	Ø 6.5	80	1100	630	410	1040	

Head deduction (F) Furlex 204S-304S Mk2 Halyard swivel (2018-)

Furlex type	F	F+E
204S Ø 6	485	750
204S Ø 7	485	750
204S Ø 8	485	760
304S Ø 8	490	800
304S Ø 10	490	905



7.4 Furlex 200TD-400TD (Through Deck)



Furlex Type/Serie		Section dimension	Luff groove mm	Luff tape chamber mm	Max. luff tape mm	Cut-back CB mm	Maximum sail space $FLD - (F + E)$		
							F mm	E mm	F+E mm
Manual	200TD	31/21	3.0	Ø 6	Ø 5	60	540	130	670
	300TD Ø 8	39/27	3.0	Ø 7.5	Ø 6.5	80	550	150	700
	300TD Ø 10	39/27	3.0	Ø 7.5	Ø 6.5	80	650	150	800
	400TD	48.5/34	3.0	Ø 8	Ø 6.5	95	620	210	830

This data is also valid for Furlex TD Electric.

7.4 Furlex 204-304TD (Through Deck)

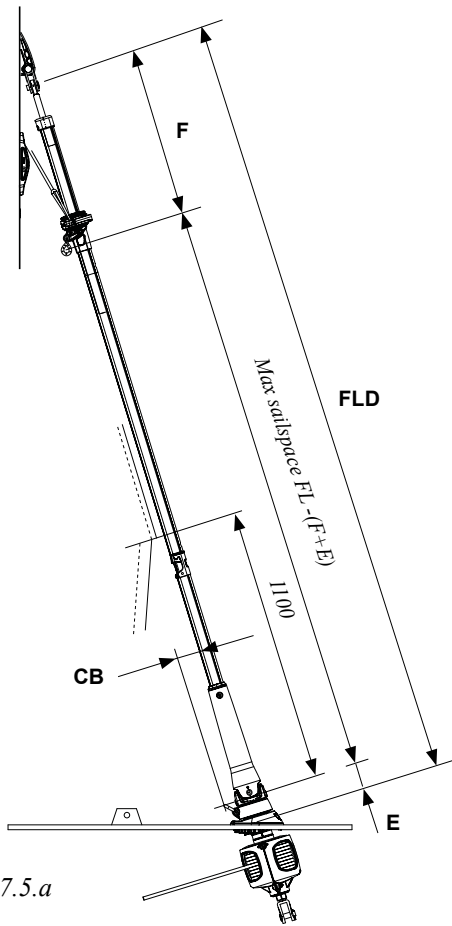

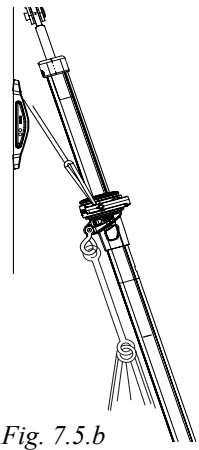


Fig. 7.5.a

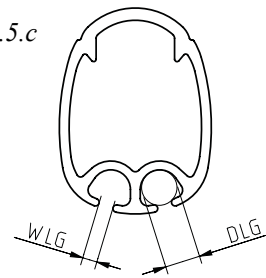




Sails with a luff considerably shorter (more than 500 mm) than the maximum permissible must be fitted with a permanent head pendant. The total luff length including pendant should be just less than the "Max. sail space" dimension. A too short luff length (including head pendant) can result in "halyard wrap" which may cause severe damage to the forestay, and put the entire rig at risk. For more information please refer to "Sail information" in the relevant Furlex manual.

Fig. 7.5.b

Fig. 7.5.c



	Furlex Type/Serie	Section dimension	Luff groove	Luff tape chamber	Max. luff tape	Cut-back	Maximum sail space FLD-(F+E)		
			(WLG)	(DLG)			F	E	F+E
			mm	mm			mm	mm	mm
Manual	204TD	35x25	3.0	Ø 6	Ø 5	60	485	75	560
	304TD Ø 8	42x31	3.0	Ø 7	Ø 6.5	60	490	85	575
	304TD Ø 10	42x31	3.0	Ø 7	Ø 6.5	60	590	85	675

This data is also valid for Furlex TD Electric.

7.5 Furlex Hydraulic 300H-500H

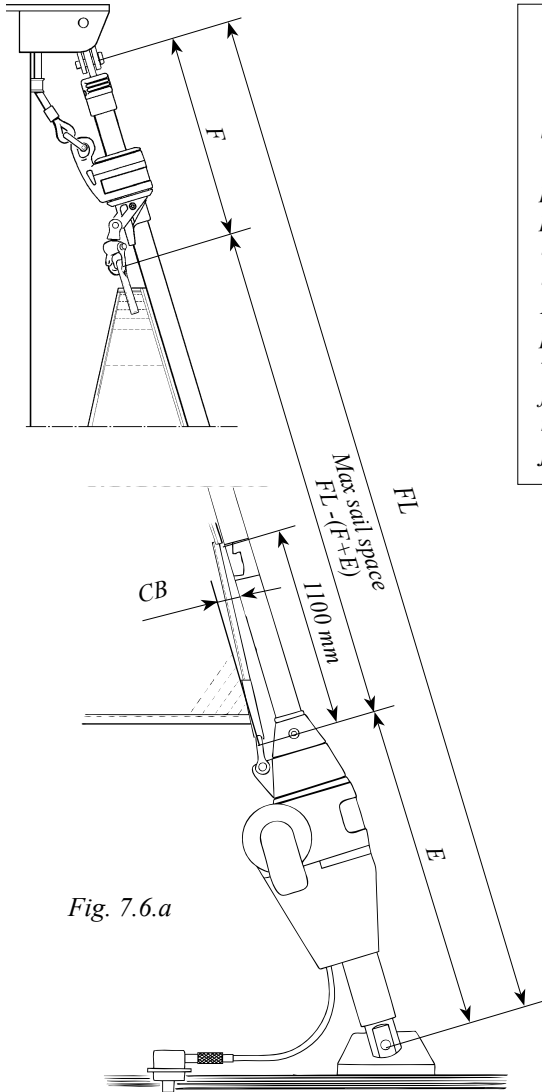

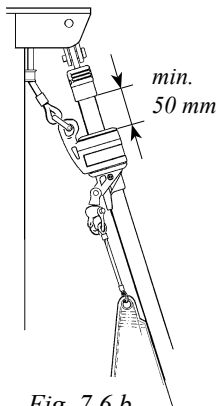


Fig. 7.6.a



Sails with a luff considerably shorter (more than 500 mm) than the maximum permissible must be fitted with a permanent head pendant. The total luff length including pendant should be just less than the "Max. sail space" dimension. A too short luff length (including head pendant) can result in "halyard wrap" which may cause severe damage to the forestay, and put the entire rig at risk. For more information please refer to "Sail information" in the relevant Furlex manual.



min. 50 mm

Fig. 7.6.b

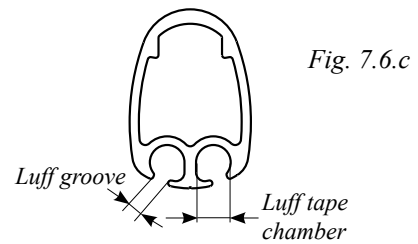
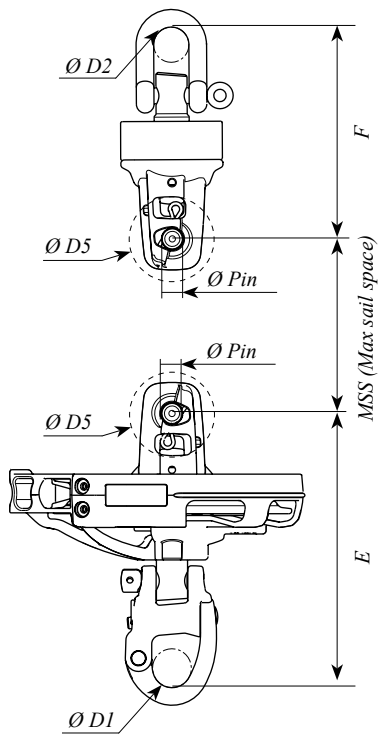


Fig. 7.6.c

Furlex Type/Serie	Section dimension	Luff groove mm	Max. space available in chamber mm	Max. luff tape mm	Cut-back CB mm	Maximum sail space FL-(F+E) (Measurement calculated from existing forestay length: FL).			
						F mm	E mm	F+E mm	
Hydraulic	C-Hydraulic	40/27	3.0	Ø 7	Ø 6	80	540	520	1060
	D-Hydraulic	50/34	3.0	Ø 8	Ø 6	100	620	675	1295
	E-Hydraulic	60/46	3.0	Ø 9	Ø 7	100	620	675	1295
	300H Ø 8	39/27	3.0	Ø 7.5	Ø 6.5	80	550	490	1040
	300H Ø 10	39/27	3.0	Ø 7.5	Ø 6.5	80	650	490	1140
	400H	48/34	3.0	Ø 8	Ø 6.5	100	620	610	1230
	500H	60/46	3.0	Ø 9	Ø 7	100	670	675	1345

8 Furling system CX & GX

8.1 Seldén CX, Furling system for Code 0 and stay sail




 See manual 595-731-E for further information.

Fig. 8.1.a

System	Maximum sail space (Measurement calculated from halyard shackle to fastening device on boat/bow sprit)			D1 mm	D2 mm	Ø Pin mm	Max fork space Ø D5 mm
	E mm	F mm	F+E mm				
CX10	115	90	205	14	12	10	40
CX15	125	95	220	16	12	10	40
CX25	155	120	275	22	20	12	45
CX40	190	145	335	24	24	16	55
CX45	190	145	335	24	24	16	66

Thimbles for AT-cables & AT-lines

System	Part no.	Ø Hole mm	D3 Max Ø AT-cable mm	W1 mm	H1 mm	H3 mm ¹⁾
CX10/15	545-114	10.3	9	16	45	18
CX10/15	545-116	10.3	11	16	45	18
CX25	545-214	12.3	11	19	55	22
CX25	545-216	12.3	13	19	56	21
CX40/CX45	545-416	16.3	16	20	59	27

1) For max Ø AT-cable

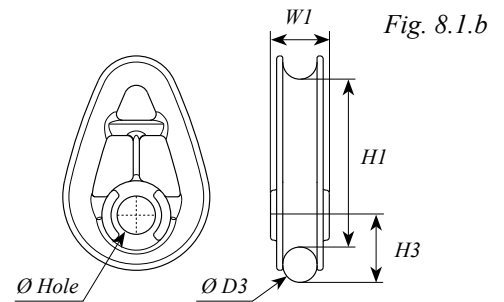


Fig. 8.1.b

Thimbles for double luff rope

System	Part no.	Ø Hole mm	D4 mm	W2 mm	W3 mm	H2 mm
CX10/15	545-115	10.3	8	16	22	34
CX25	545-215	12.3	8	19	27	42
CX40/CX45	545-415	16.3	12	20	33	52

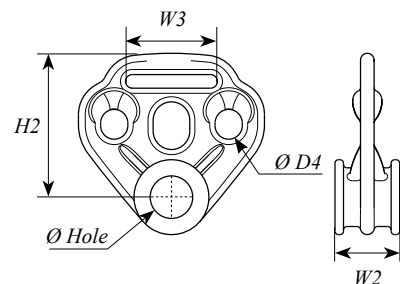
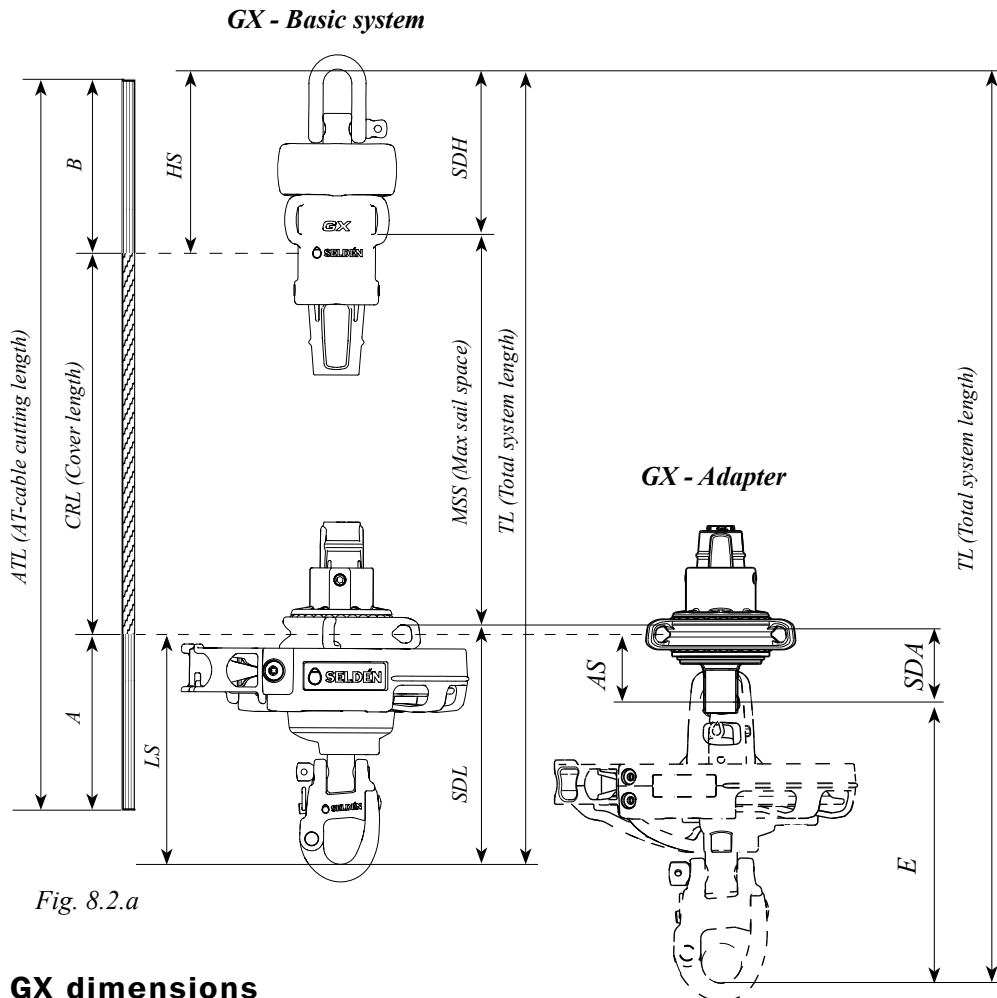


Fig. 8.1.c

8.2 Seldén GX - Furling system for Gennakers/ Asymmetric spinnakers



GX dimensions

System	Maximum sail space (TL-SDL-SDH) ¹⁾		AT-cable space (TL-LS+A-HS+B)			
	SDL mm	SDU mm	LS mm	HS mm	A mm	B mm
GX7.5	100	70	100	70	120	120
GX10	105	70	110	70	120	120
GX15	115	80	120	75	120	120
GX25	155	100	155	95	150	150

1) System Maximum sail space includes space for lashing rope.



To calculate
the length of
the AT-cable,
see manual
597-077-E.

Dimension for GX tack adapter in combination with CX lower swivel

System	Adapter Part no.	AS adapter deduction	E CX lower swivel deduction	SDA sail deduction adapter
GX7.5 adapter - CX10	545-028-01	30	115	35
GX10 adapter - CX15	545-128-01	30	125	35
GX15 adapter - CX25	545-228-01	40	155	40
GX25 adapter - CX45 ¹⁾	545-428-01	45	190	50

1) Same values for CX40 as for CX45.

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