Version 6

YACHT

PRODUCT CATALOGUE

Rig solutions for yachts ranging from 25 to 80 feet.

SELDÉN
for sailing

PRODUCT CATALOGUES

We hope this Seldén Yacht product catalogue will be helpful for you finding accessories and spare parts for your rig. This is just one of four product catalogues covering our extensive range of Yacht, Keelboat, Dinghy and Deck Hardware products. If you need any of the other catalogues you are welcome to pick them up from your local dealer or to download from www.seldenmast.com.

Deck hardware

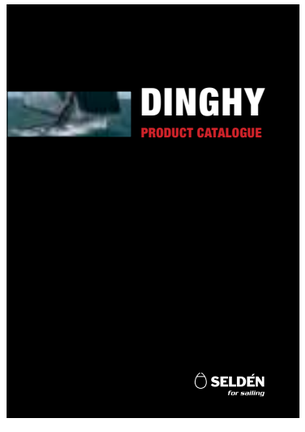
Blocks, cleats, swivels, tracks, travellers, deck organizers, winches and accessories.

Keelboat

Rig systems and accessories for 18 to 26 feet boats.

Dinghy

Rig systems and accessories for dinghies.



DINGHIESKEELBOATSYACHTS

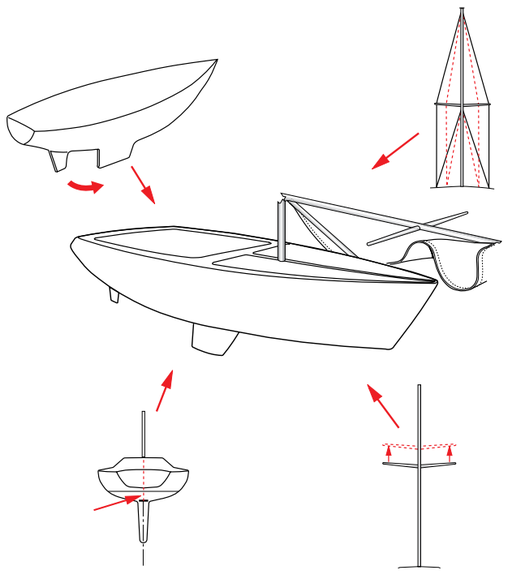
Making the best yacht rigging systems in the world is only part of our business. With a large number of championship medals in the Olympics, World Championships, European Championships and national championships, Seldén has proved to be Number One in rig systems for dinghies and keelboats. So no matter the size of your boat, whether you push your equipment to the very limit, or just enjoy leisurely cruising, go Seldén and you'll benefit from reliable top-class gear.

Right from the start

Heeling test in 1965. The righting moment of the boat is measured at 30° heel.

Seldén was founded in 1960 and it has grown from a small company into the world leader, with manufacturing in Europe, the USA and Asia. Precise, meticulous work has always been a characteristic of Seldén. Our manufacturing methods, tools and instruments have been specially developed to meet the demands of large-scale, cost-effective, quality production and the high demands of sailors around the world. However, we still carry out the same heeling tests as we did back in 1965. We started by doing things in the right way, and that is how we have continued.

Heeling test today. Materials change. Good methods don't.



Unspecified changes can cause failures

Each rig is carefully designed and sized for the boat in question. We base our mathematical dimensioning on the righting moment of the boat and the boat designer's proposed sail plan. The wishes of the boat owner determine the way the rigging system is equipped. With nearly 50 years of experience, we have built up a tremendous experience bank for the use of our rig designers. As a result, the boat and rig form a well-functioning whole. Because of this, it is important that even seemingly unimportant details on the boat or rig are not changed without first consulting us, as even small changes can lead to big problems.

Each mast and boom from Seldén has a unique serial number. This is engraved in the lower end of the mast extrusion and the front end of the boom extrusion. Quote this number if you want to discuss details relating to your rig.

Give us the facts

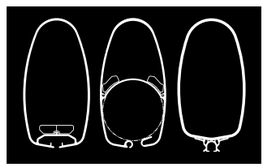
The key to a correct rig calculation is the quality of the input data at our disposal. This data consists of hard facts, plus what we can learn by listening very carefully when talking to the customer.

The "Seldén Rig Fact sheet" has proven to be a simple and effective way of gathering all the facts required to calculate the mast, boom and standing rigging. It is where you note the data on the envisaged type of rigging, the main dimensions of the sail plan, the location of the chainplates and the righting moment of the boat (or the correct information to help us calculate the righting moment). The "Seldén Rig Fact sheet" is available on our web site, **www.seldenmast.com**.

Attention to detail

In our search for perfection, no detail is considered too small. This applies to everything, from the choice of materials to stringent testing of the finished product. Seldén's business philosophy can be summed up as quality thinking and system thinking, and a continuous quest to achieve the best possible function for each product. This catalogue provides an overview of this holistic approach. Read on to learn about our MDS full-batten system, our unique inboard ends, the load distributors in the Furlex jib furling system, and a great many other features and details.

MASTS



Leaders in every detail

Every Seldén rig is carefully thought out, down to the last detail. All the way from the materials and functions of the different parts of the rig, to dimensioning the right rig for each individual boat. Each individual component contributes to the performance of the whole rig. That is the Seldén way – experienced yachtsmen behind every aspect of design, product development and production.

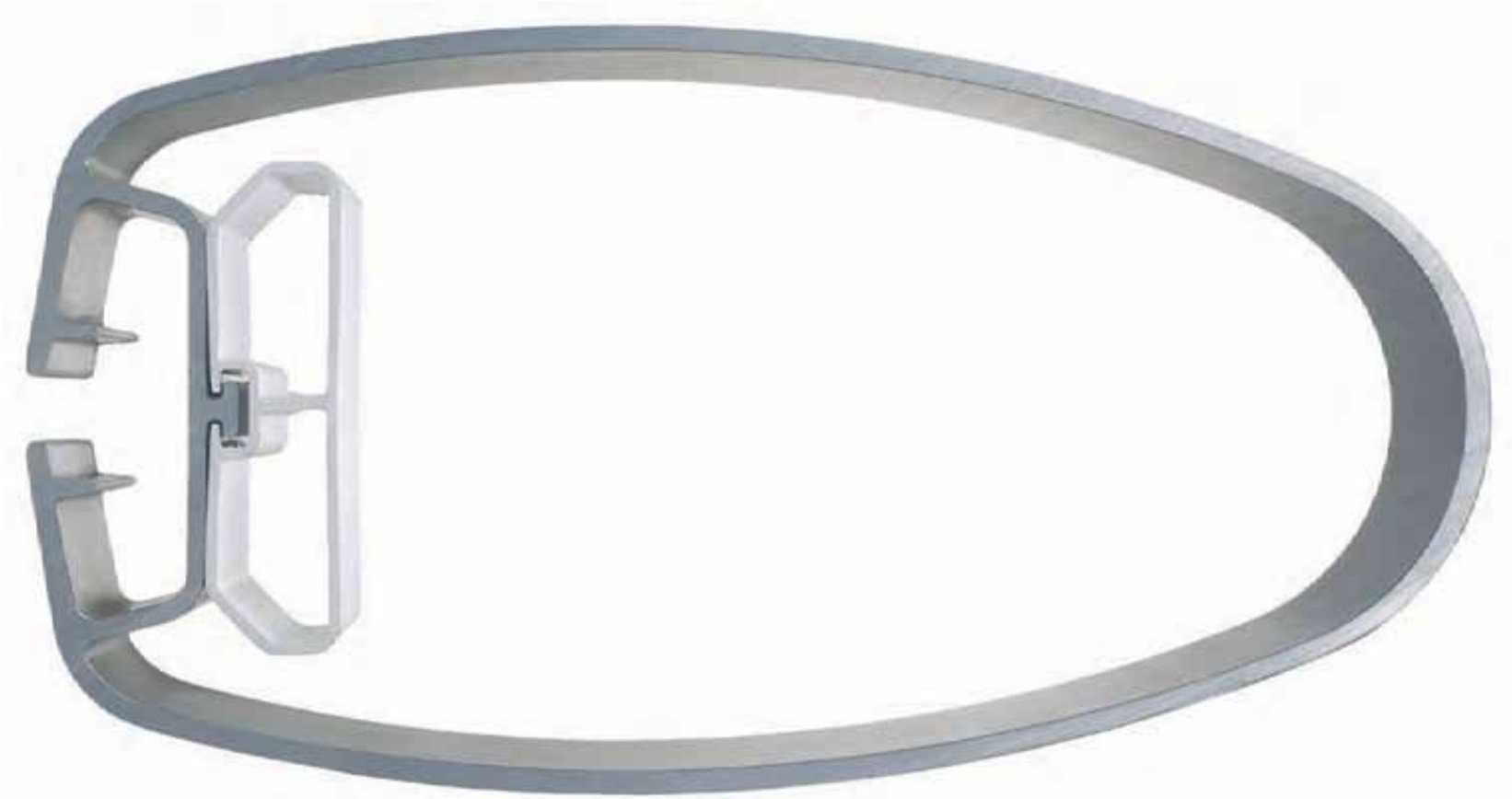
All our standard rigs are custom made

Extruded aluminium is an excellent material for making masts. This is where Seldén has earned its reputation as world leader in mast making. Today Seldén offers a full range of masts and rig equipment in both aluminium and carbon including booms, spinnaker poles, Rodkicker rigid vangs, furling systems, rig fittings and deck hardware. All rigs are custom-made, through every calculation and detail, for each individual boat. We know how much depends on the rig, and there is no room for compromise.

Mast sections

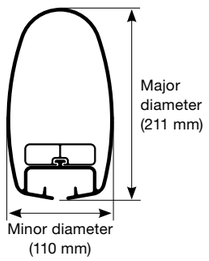
C-sections and F-sections

Loads generated by the crew (mainsheet, vang, outhaul, Cunningham etc.) are transferred to the mainsail and on to the mast. As the mainsail is designed according to the expected curve of the mast, a longitudinally stiff mast allows for less luff curve of the sail. Instead, this sail area can be added to the roach of the sail, where it is subjected to the wind and more efficient. The longitudinal rigidity of the mast section makes for higher forestay load created by tensioning the backstay. Running backstays can often be avoided. The risk of mast pumping is also reduced.

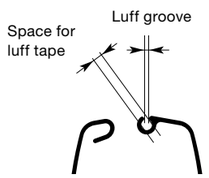


		Mast section	Section dim. mm	I_y cm^4	I_x cm^4	Wall thickness mm	Weight kg/m	W_y cm^3	W_x cm^3	Sail groove mm	Sail groove for bolt rope*	MDS car	Sail slides Art. no.
C-sections		C156	156/87	391	144	3.00	3.71	42.8	33.2	10 ± 0.75	5.5 ± 0.75	See page 48-49	511-605 or 511-607
		C175	175/93	558	191	3.24	4.18	53.6	41.0				
		C193	193/102	779	257	3.40	4.74	69.3	50.6				
		C211	211/110	1051	341	3.65	5.34	86.5	62.0				
		C227	227/119	1407	456	3.95	6.15	108.0	76.6				
		C245	245/127	1910	614	4.35	7.15	137.0	96.5				
		C264	264/136	2591	830	4.80	8.40	172.0	122.0				
		C285	285/147	3508	1127	5.20	9.72	214.0	153.3				
		C304	304/157	4686	1524	5.80	11.44	272.0	194.0				
		C321	321/171	5822	2056	5.5/6.4	13.06	324.4	238.7	16 ± 0.75			511-603
		C365	365/194	9160	3161	5.5/6.8	15.50	447.0	326.3				
F-sections	RA	F176	176/93	526	187	2.89	4.20	58.2	40.0	See table page 9. **			
		F194	194/101	709	254	3.04	4.79	70.8	49.8				
	RA/RB	F212	212/109	970	337	3.15	5.49	88.2	61.8				
	RA/RB	F228	228/118	1306	453	3.40	6.35	112.0	76.8				
	RB	F246	246/126	1781	613	3.75	7.44	139.0	97.3				
	RB/RC	F265	265/135	2392	828	4.15	8.73	173.0	122.0				
	RB/RC	F286	286/146	3237	1122	4.50	10.10	220.0	154.0				
	RC/RD	F305	305/156	4389	1513	5.05	11.84	276.0	194.0				
	RC/RD	F324	324/169	5576	2056	5.5/7.0	13.80	328.8	243.3				
	RD	F370	370/192	8835	3149	5.8/9.0	16.60	468.0	326.0				
	RD	F406	408/207	14321	4725	6.5/10.0	21.20	671.0	451.0				

* If a traditional bolt rope is to be used, a plastic profile (Art. No. 535-710), as well as a sail feed (505-526-01) must be added to the luff-groove on the mast.
** For more detailed information on Seldén's furling masts, see pages 96–111 or "Sailmakers' Guide" (www.seldenmast.com).

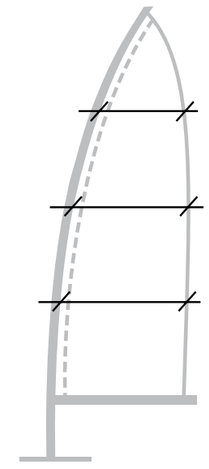


*Mast section measurements are given as follows: Major diameter/Minor diameter (i.e. 211/110). This will help identification and the use of correct measurements. The major diameter of the mast can usually be found in the number engraved at the mast heel. For example K23-**C211**-4475.*

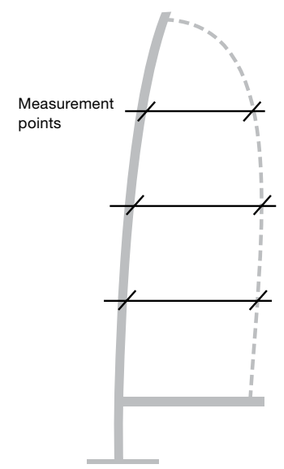


Furling mast luff extrusion

		Weight kg/m	A mm	B mm
	RA	0.55	2.8 ±0.25	6.0
	RB	0.93	3.25 ±0.35	8.0
	RC	1.28	3.25 ±0.25	10.6
	RD	2.11	3.25 ±0.25	10.6



Big luff curve. Less roach.

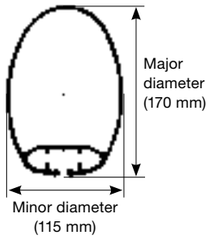


Stiff mast. Bigger roach for more projected area.

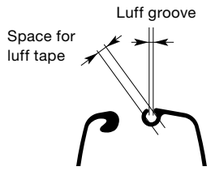
Mast sections

E-sections, D-sections and R-sections

Our older types of mast sections are no longer in production. But we stock a range of spare parts and accessories for these masts. Please note that the mast section is always the key for correctly identifying the parts you are looking for.



*Mast section measurements are given as follows: Major diameter/Minor diameter (i.e. 170/115). Take note of the mast shape. This will help identification and the use of correct measurements. The major diameter of the mast can usually be found in the number engraved at the mast heel. For example K23-**170**-1233.*



Furling mast luff extrusion	Weigh kg/m	A mm	B mm
RA	0.55	2.8 ±0.25	6.0
RB	0.93	3.25 ±0.35	8.0
RC	1.28	3.25 ±0.25	10.6
RD	2.11	3.25 ±0.25	10.6

		Mast section	Section dim. mm	I_y cm⁴	I_x cm⁴	Wall thickness mm	Weight kg/m	W_y cm³	W_x cm³	Sail groove mm
E-sections		E122	122/85	161	78	2.45	2.44	22.7	18.5	4.5 ±0.5 ⊗
		E130	130/93	209	106	2.50	2.76	27.4	22.8	
		E138	138/95	294	139	2.85	3.44	35.5	29.3	5.5 ±0.75 ○ ●
		E155	155/104	433	193	3.05	4.01	46.8	37.2	
		E170	170/115	584	261	3.10	4.40	57.8	45.4	
		E177	177/124	721	338	3.40	4.90	70.4	54.5	
		E189	189/132	951	445	3.70	5.65	87.2	67.4	
		E206	206/139	1304	590	4.10	6.59	111.5	84.9	
		E224	224/150	1766	801	4.50	7.47	141.7	106.9	
		E237	237/162	2233	1058	4.85	8.54	172.4	130.6	
		E274	274/185	3689	1653	4.90	10.18	246.4	178.7	
D-sections		D137	137/113	382	258	3.90	4.58	46.7	46.0	5.5 ±0.75 ○ ●
		D160	160/132	738	503	5.30	6.35	79.1	76.5	
R-sections Furling mast	RA	R190	190/94	574	205	2.8-3.2	4.30	55.2	43.3	See table above.
		R213	213/104	843	294	3.0-3.3	5.06	73.1	56.6	
		R235	235/116	1224	438	3.3-3.5	5.99	96.9	75.4	
	RB	R232	232/126	1820	643	3.5-6.5	8.16	146.2	99.5	
		R260	260/136	2461	917	4.5-7.0	9.60	175.4	139.9	
	RC	R290	290/150	3572	1361	5.0-7.0	11.33	225.7	179.4	

⊗ Sail slide, Art. No. 511-601 (No. 1334)
○ Sail slide, Art. No. 511-602 (No. 1335)
● Sail slide, Art. No. 511-603 (No. 1336*)
* (recommended for yachts LOA >45')