

CARBON SPARS

 **SELDÉN**

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WATER TIGHT HOLE  
DO NOT COVER

*Seldén was founded in 1960 and has grown to become the world leading spar producer with manufacturing facilities in Europe, USA and Asia. Our products and processes combine reliable and tested methods with the latest technology that enable us to produce spars for Olympic and World Champions, offshore racers, blue water cruisers and family sailors alike. It is this experience and knowledge that we have applied to our latest generation of carbon spars.*

Our carbon spars are designed using the latest finite element analysis backed by many years of solid engineering experience.

Our unique production method gives a unique look. We call it Mandrel Filament Moulding (MFM). The process is fully automated and computer controlled for ultimate accuracy, repeatability, efficiency and that stunning 'Viper' pattern.

Seldén produce over 400 carbon masts per year as well as booms, poles and bow sprits for boats including high performance skiffs, racing keelboats, IRC race boats and some of the world's most prestigious cruising yachts.

With more sailors choosing Seldén carbon spars, the pattern is obvious.



*Hallberg-Rassy 50 carrying a carbon furling mast*

Fibre laid at 90° for 'hoop strength'. This gives the tube structural integrity.

Zero degree longitudinal fibre provides extra stiffness where required to optimise bend and performance.

Fibre is applied under high tension to ensure straightness and a compact lay-up.



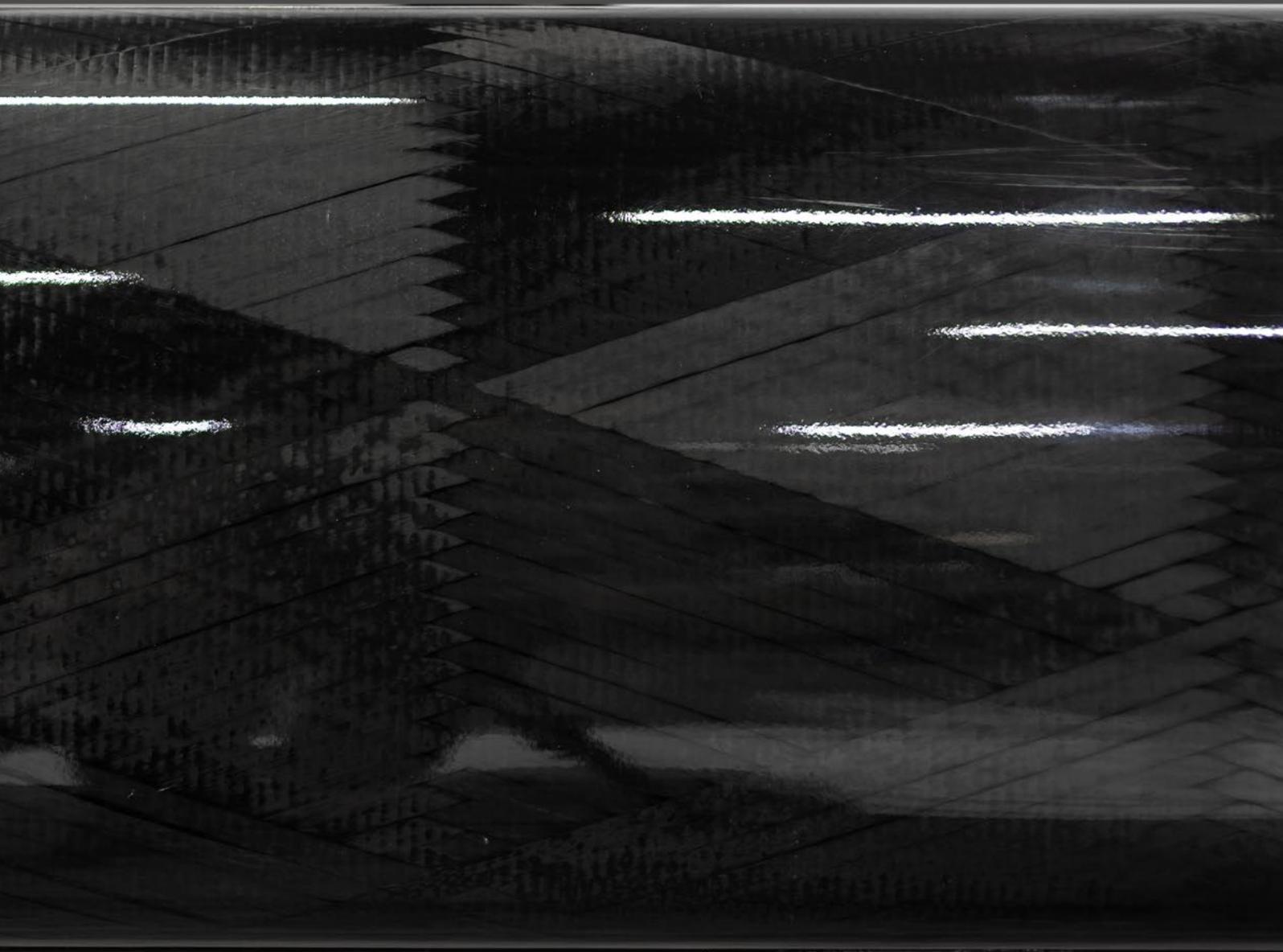
Seamless tube:  
no vertical join, no extra filler,  
no extra laminate, no glue.

Carbon filament has a low  
resin content compared to  
cloth or tape.

All structural carbon is  
uni-directional pre-preg.  
No wet resin is used.

# SELDÉN CARBON SPARS

Seldén carbon spars are available with a choice of 5 quality levels of surface finish. Which quality you choose depends on the type of boat and the requirement of the spar. Spars can be supplied with a clear finish or painted the colour of choice.



Continuous fibre laid at the optimal angle (between 15 – 22°), to provide strength and longitudinal stiffness. No need for 45° fibre.

Autoclave cured for near perfect consolidation and void free laminate.

# THE BASE

A solid, machined aluminium heel plug prepared for mast jack.  
Learn more from our website  
[www.seldenmast.com/products/hydraulics/](http://www.seldenmast.com/products/hydraulics/)



*External composite reinforcement is applied where high loads and cut-outs are required and experienced.*



# SPECIALIST FITTINGS

*Spreaders in carbon fibre reduce weight loft and contribute to an exclusive appearance.*

*Halyard routing for top hoisted downwind sails. All stainless components are insulated from the carbon fibre mast section.*

*Example of forestay attachment. A nose tang fitting with toggle and chafe guard.*

*Example of twin halyard box for jib halyards.*







SELDÉN

Our carbon furling mast is the best of two worlds. A stunning blend of convenient sailhandling and performance.

Hydraulic halyard tensioners and connections for hydraulic vang and outhaul.

Moulded carbon fibre attachments for vang and boom.

WATER DRAIN HOLE  
DO NOT COVER

# THE TOP

*Example of a long head box for a big headboard. This is the furling mast used for Hallberg-Rassy 50.*



*Stainless halyard slots reduce friction and prevent wear on the mast section.*



*Combined steaming light and deck light.*

*Dead-end bracket for 2:1 Code 0 halyard.*



*In-board end.*



*Stainless kicker bracket.*



*Smooth exit for the preventer.*



*Main sheet attachment.*



# SELDÉN CARBON BOOMS

A Seldén carbon boom offers up to a 40% weight saving compared to aluminium. Our booms are made using the same MFM process as our mast and are available with the same choices of fibre and finish.

Note that under IRC there is no additional penalty for a carbon boom if your boat already has a carbon mast.





## KEELBOATS

The J/70 One design class are equipped with Seldén Carbon rigs



## RACING PERFORMANCE

First 40



## MANDREL FILAMENT MOULDING (MFM)

MFM is a process unique to Seldén. Our custom made CNC fibre laying machines are fast, efficient and equipped with a delivery system designed and fitted by Seldén to provide the finished spar with unrivalled accuracy and precision.



## PLEASURE YACHTS

The finish you like. Swan 48 with Seldén Carbon rig painted in white



## DINGHIES/LIGHTWEIGHT

F101 foiling lightweight trimaran



## PERFORMANCE CRUISING

Carbon furling mast

Seldén produce carbon rigs for dinghies, keelboats and yachts. Conventional masts as well as furling masts. Get the whole picture by visiting [www.seldenmast.com/products/masts/](http://www.seldenmast.com/products/masts/)

# DINGHIESKEELBOATSYACHTS

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The Seldén Group is the world's leading manufacturer of mast and rigging systems in carbon and aluminium for dinghies, keelboats and yachts.

Our well known brands are Seldén and Furlex.

The world-wide success of Furlex has enabled us to build a network of over 750 authorised dealers covering the world's marine markets. So wherever you sail, you can be sure of fast access to our service, spare parts and know-how.

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*for sailing*