

# Carbon spinnaker poles



## Seldén quality

We have developed our own computer controlled manufacturing method in which prepreg (pre-impregnated) tows are wound onto a mandrel (cylinder) prior to oven curing. This method enables us to exercise full control over every stage of the manufacturing process and guarantee products of consistently high quality. One of the big advantages of this Seldén production method is that it enables us to achieve sufficient durability in the areas subject to the greatest loads and wear.

## In all sizes

Seldén carbon spinnaker poles are suitable for dinghies and for yachts up to 30 tonnes. The larger poles are tapered to optimise weight/strength requirements, and facilitate handling.



Seldén spinnaker poles are designed to make light work of spinnaker handling. The big advantage of carbon fibre is its low weight. The weight savings enable the crew to handle the spinnaker faster, with less effort.



Carbon spinnaker poles (dimensions 47/47 and 59/59) with small composite end fittings and Dyneema bridle.



Carbon spinnaker poles (dimensions 77/77 and 88/88) with medium composite end fittings, trip trigger and Dyneema bridle.



Dip pole, trip trigger end fitting.



Female casting for clip-on spigot.



Harken end fitting for larger poles.

Weight comparison – aluminium and carbon spinnaker poles (equal strength).  
**Aluminium spinnaker pole** Section 99/99, length 5150 mm, weight 16.9 kg.  
**Carbon spinnaker pole** Section 102/102, length 5150 mm, weight 9 kg.

## Seldén carbon spinnaker poles

Type	Section dia., mm	Weight kg/m	Inertia Al-equivalent cm <sup>4</sup>
Untapered tube	47	0.33	5.4
	59	0.42	10.8
	61	0.59	18.5
	77	0.65	42.3
	88	1.00	63
	90	1.26	88
Tapered tube	102	1.15	134.6
	119	1.68	217
	137	1.94	335
	156	2.69	508
	158	3.15	642



Twaron protection can be supplied as an option. Twaron filaments protect the pole from damage caused by the forestay and shrouds.

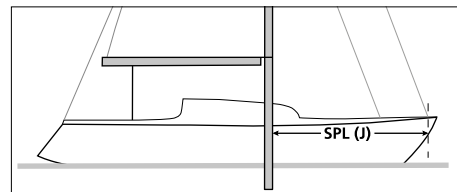


#### Topping lift/Downhaul

Central attachment points for lift and downhaul are not available. End-for-end poles have optional bridles made from the core of spectra rope. Poles for dip gybe always use the out-board end attachments.

#### Table terminology

RM: Righting moment at 30° of heel.



SPL (J): Maximum spinnaker pole length for your yacht.

A whisker pole should be approximately as long as the foot of the sail you intend to pole out.

#### Carbon spinnaker pole selection max SPL (mm)

RM 30° kNm	Displ. tonnes	47/47	59/59	61/61	77/77	88/88*	90/90*	102/102	119/119	137/137	156/156	158/158
8	1.6	2850										
10	2.0	2610	3710									
12	2.4	2430	3450	4490	4810*							
14	2.8	2280	3420	4220	4810*							
16	3.2	2160	3070	4000	4810*							
18	3.6	2070	2930	3820	4810*							
20	4.0		2810	3660	4810*	5450*						
25	5.0		2750	3350	4810*	5450*						
30	5.7		2390	3110	4710	5450*	5450*					
35	6.3			2930	4430	5440	5450					
40	7.0				4200	5160	5450	6500				
45	7.7				4000	4920	5450	6500				
50	8.2				3840	4720	5450	6500	8500			
55	9.0					4540	5330	6500	8360			
60	10					4390	5150	6360	8080			
70	11					4120	4840	5980	7590	9370		
80	12					3910	4590	5670	7200	8950		
90	14					3730	4380	5410	6870	8540	9370	
100	15						4200	5190	6590	8180	9370	
110	16							4990	6340	7880	9370	
120	18							4820	6120	7610	9360	
130	19							4670	5930	7370	9070	
140	20							4530	5760	7150	8800	9370
150	22								5600	6960	8560	9370
160	23								5460	6780	8340	9370
180	31								5210	6470	7960	8980
200	32								4990	6200	7630	8610
220	34								4810	5970	7350	8290
240	35									5770	7090	8000
260										5590	6870	7750

\* Max available SPL with composite end fittings, attached to a fixed mast ring. If the pole is to be "Dip Gybe", max available SPL is increased by 65 mm.



### Carbon whisker pole selection max pole length (mm)

RM 30° kNm	Displ. tonnes	47/47	59/59	61/61	77/77	88/88*	90/90*	102/102	119/119	137/137	156/156
8	1.6	3700									
10	2.0	3700									
12	2.4	3580	5100								
14	2.8	3380	4800	5230							
16	3.2	3200	4550	5230							
18	3.6	3060	4340	5230	4810*						
20	4.0	2930	4160	5230	4810*						
25	5.0	2680	3810	4950	4810*	5450*					
30	5.7		3540	4600	4810*	5450*	5450*				
35	6.3		3330	4330	4810*	5450*	5450*				
40	7.0		3150	4100	4810*	5450*	5450*				
45	7.7			3920	4810*	5450*	5450*	6500			
50	8.2			3750	4810*	5450*	5450*	6500			
55	9.0			3610	4810*	5450*	5450*	6500	8500		
60	10				4810*	5450*	5450*	6500	8500		
70	11				4810*	5450*	5450*	6500	8500	9370	
80	12				4710*	5450*	5450*	6500	8500	9370	
90	14					5450*	5450*	6500	8500	9370	9370
100	15					5280	5450*	6500	8500	9370	9370
110	16					5080	5450*	6500	8500	9370	9370
120	18						5450*	6500	8500	9370	9370
130	19						5450*	6500	8500	9370	9370
140	20						5430	6500	8500	9370	9370
150	22							6500	8290	9370	9370
160	23							6360	8080	9370	9370
180	31							6070	7710	9370	9370
200	32							5820	7390	9180	9370
220	34								7110	8840	9370
240	35								6870	8540	9370
260										8270	9370

\* Max available SPL with composite end fittings, attached to a fixed mast ring.  
If the pole is to be "Dip Gybe", max available SPL is increased by 65 mm.