COMPOTECH
Carbon Composite Components

The Best Tube Technology For DN Sailors

CompoTech DN carbon masts are well established among DN ice sailors in Europe and have gained popularity since being introduced in 2010. Enthusiasts at CompoTech are continually developing, testing and improving the design of their DN masts. The latest design will be tested over the winter 2014/2015 season.

The dynamic properties of the all Carbon Fibre mast are much better than a Glass Fibre mast. For more details see video:-
http://youtu.be/EzfeDXEjVGo

Experienced composite design engineers at CompoTech have solved the DN mast problem of having enough mast flexibility at the same time as having sufficient wall stability. The mast tube weighs only 4-4,5 kg. and so needs about 1.5 kg of lead to comply with the DN minimum mast weight of 6.8 kg.

CompoTech have masts for the complete range of skipper's weight. See selection table overleaf…

The Price of CompoTech DN Mast:-

1300 € ex VAT (Czech VAT is 21%).

The mast includes:-

The bottom aluminium fitting with 2 x M12 holes for the mast foot fitting.

The fitting for hooking the halyard.

Stainless steel hound fitting.

Harken halyard top block.

The bottom bearing fitting and halyard are not included, but can be ordered separately.

More information can be obtained from:-

Vladislav Ptašnik (CZ 112),

+420 606 236 818, vlada@compotech.com

Compo Tech PLUS, spol. s r. o.
Nová 1316, 342 01 Sušice
Czech Republic

www.CompoTech.com

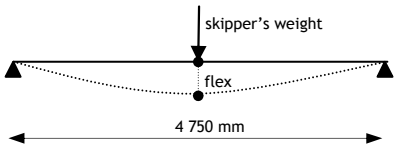
Tel: +420 376 526 839
Fax: +420 376 522 350
Email: Enquire@CompoTech.com

Mast Category Selection

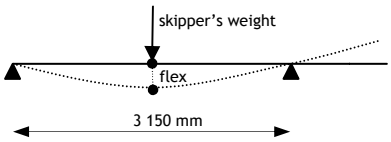
The DN ice boat is quite complex to set-up. Combinations of mast stiffness, plank stiffness, runner choices and sails selection. The sailor's weight and his sailing style are all factors to be considered when selecting the best mast.

It is generally considered that the optimal flex of the mast is 76-77 mm when loaded by the skipper's weight in the middle between hound fitting and mast bottom (as shown on picture b).

a) bottom - top flex



b) bottom - hound fitting flex



To assist you in the right selection there are shown flex data of a given weight for all CompoTech mast categories. Flex data are measured in two modes as shown on pictures above. Bottom – top (span 4 750 mm) and hound fitting – bottom (span 3 150 mm).

Example: Skipper weight is 80 kg. Go to column „skipper weight 80 kg" and scan down column „hound-bottom" for the value closest to optimum 76-77 mm. You stop at value „76" which is DN Carbon Mast 80. This should be the right option.

CompoTech DN Mast Categories		skipper weight 70 kg		skipper weight 75 kg		skipper weight 80 kg		skipper weight 85 kg		skipper weight 90 kg	
		flex side-side (mm)									
mast name	recommended range weight (kg)	bottom -top	hound-bottom	bottom-top	hound-bottom	bottom-top	hound-bottom	bottom-top	hound-bottom	bottom-top	hound-bottom
DN Carbon Mast 75	70 - 80	244	71	261	76	278	81	296	86	313	91
DN Carbon Mast 80	75 – 85	225	66	241	71	257	76	273	80	289	85
DN Carbon Mast 85	80 - 90	205	61	220	65	235	69	249	74	264	78
DN Carbon Mast 90	85 – 95	183	55	196	59	209	63	222	67	235	71
DN Carbon Mast 100	95 - 110	173	51	185	55	197	59	210	62	222	66
DN Carbon Mast 110	> 110	161	48	173	51	185	54	196	58	208	61

CompoTech DN Mast Categories		skipper weight 95 kg		skipper weight 100 kg		skipper weight 105 kg		skipper weight 110 kg	
		flex side-side (mm)							
mast name	recommended range weight (kg)	bottom -top	bottom - top	bottom - top	hound - bottom	hound - bottom	hound - bottom	bottom - top	hound - bottom
DN Carbon Mast 75	70 - 80	331	96	348	101	365	106	383	111
DN Carbon Mast 80	75 – 85	305	90	321	95	337	99	353	104
DN Carbon Mast 85	80 - 90	279	82	293	87	308	91	323	95
DN Carbon Mast 90	85 – 95	248	75	261	79	274	83	287	87
DN Carbon Mast 100	95 - 110	234	70	247	73	259	77	271	81
DN Carbon Mast 110	> 110	219	65	231	68	242	71	254	75

Mast profile is oriented side-side. Fore-aft data available upon request.
Please note that data might differ in 5% range in laboratory measurement. Values measured „on the ice" can differ even more.

Compo Tech PLUS, spol. s r. o.
Nová 1316, 342 01 Sušice
Czech Republic

www.CompoTech.com

Tel: +420 376 526 839
Fax: +420 376 522 350
Email: Enquire@CompoTech.com