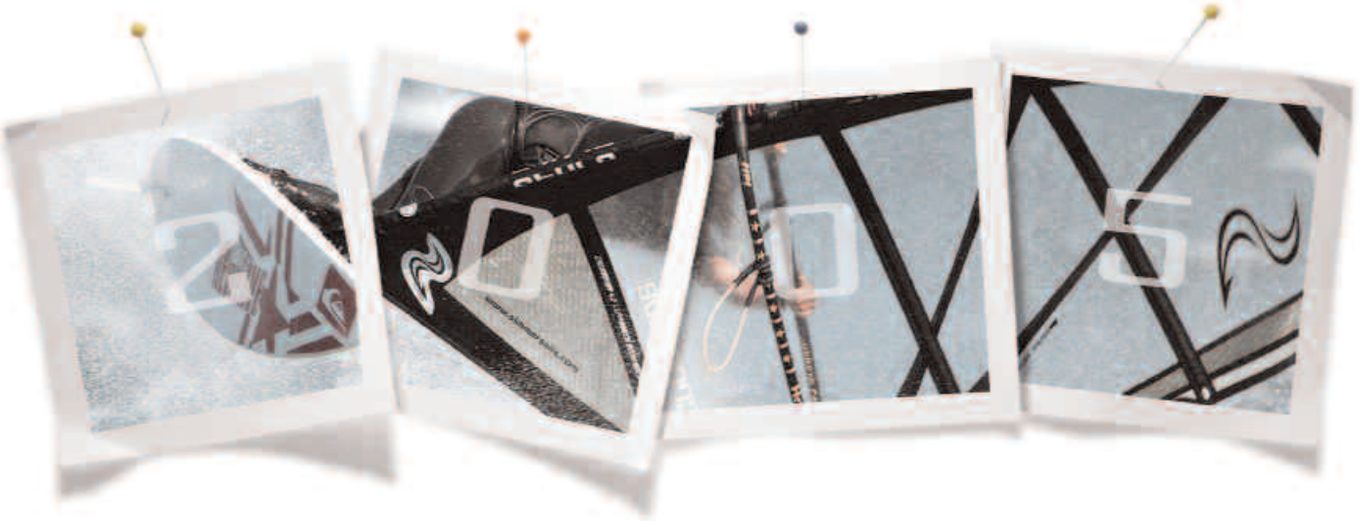


SIMMER STYLE
MAUI HAWAII

Simmer Style 2005

Windsurfing sail development is always moving in multiple directions. From Beginners to Formula, Super Cross, Freestyle, Wave and Indoor- Simmer Style continues to lead the way in product development in all of these disciplines. Now, for 2005, Simmer Style continues to raise the bar in an area that is our specialty- increased durability.

Simmer's roots are hardcore, durable down the line wave sails. We still lead the way in that department, but we have also blended that spirit into all the models. Take a look at the new top sections in the sails- double layer Dacron. It's not only good for protecting the sail when it's rolled up in the bag. Consider all the new moves that
we see on the water- The mast is getting stuck in the reef and on the rocks; rigging on concrete. The sails take a beating and the new Dacron head sections can live up to that abuse. Part of the new Dacron head construction is a new unbreakable PVC mini batten. This new mini batten supports the rounded head outlines, and rolls easily. Also, check out our new rubber leech protection located on portside of each batten close to the leech. Check out the new sleeve protection in super durable Nylon 1200. All 2005 sails feature foot piping in the tack area to protect the seaming from abrasion. Also for '05, the new wave designs offer more X-ply in high stress areas.

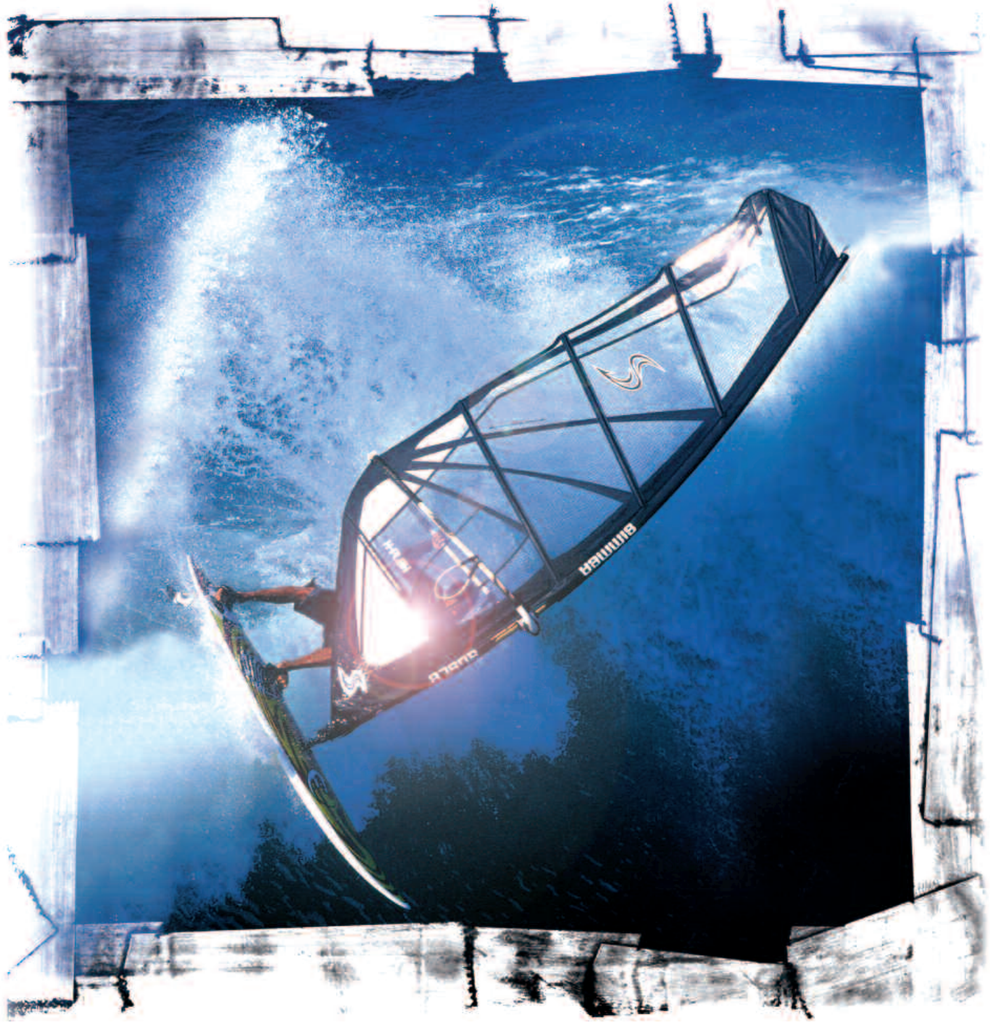
Simmer Style Sailmaking is the industry leader in pure performance. Our designs continue to set the standards by which all others sails are judged in magazine tests around the world. However, product development is an ongoing process, and we are constantly striving to improve that performance. Sometimes it's accomplished through big steps- like the Stretch Control Tendon system. Sometimes it's accomplished through tuning, like our focus as of late- optimizing the shape and performance of the foot batten area of the sails. In addition to optimizing the depth and curve in this critical area of the sail we are also over-hauling the foot batten construction. By sandwiching a layer of monofilm between the top Dacron batten pocket layer and the batten itself, the carefully foiled battens are centralized in the pocket resulting in a greater foil support and easy, smooth batten rotation.

We are also broadening our production range. The 2004 accessory range has been very well received and we are expanding it for 2005. Among the items we are currently working on are carbon/aluminum booms, and also juniors and kids booms, as well as extensions and kids masts. Also on the drawing table is a new mini cam sail.

Check out all the Simmer Style products for 2005- you'll be stoked you did!

GOOD SAILING!

Tomas Persson, Jason Diffin
And the whole Simmer Style R&D Team



X-FLEX

Size	Mast	Luff	Boom
3,0	RDM 370	327	133
3,3	RDM 370	348	137
3,7	RDM 370	367	143
4,0	RDM 370	381	150
4,2	RDM 370	391	153
4,5	RDM 400	404	158
4,7	RDM 400	413	161
5,0	RDM 400	428	165
5,3	RDM 430	437	170
5,6	RDM 430	443	175
6,1	RDM 430	456	186

BEST MAST CHOICE: Simmer SC-RDM

SECOND MAST CHOICE: Simmer SC-6

BATTEN COUNT: 5

VISION

Size	Mast	Luff	Boom
3,0	RDM 370	327	133
3,3	RDM 370	348	137
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BEST MAST CHOICE: Simmer SC-RDM

SECOND MAST CHOICE: Simmer SC-6

BATTEN COUNT: 5

CROSSOVER

SIZE	BOOM-MIN.	MAX.	LUFF	MAST
3,3	132	134	365	370 / 17
3,7	140	142	379	370 / 17
4,0	145	147	388	370 / 17
4,2	150	152	395	400 / 19
4,5	156	158	405	400 / 19
4,7	161	163	413	400 / 19
5,0	168	170	422	430 / 21
5,3	173	175	431	430 / 21
5,7	182	184	443	430 / 21
6,2	188	193	457	430 / 21
6,7	197	199	466	460 / 25
7,2	202	204	480	460 / 25

BEST MAST CHOICE: Simmer SC-6

SECOND MAST CHOICE: Simmer SC-RDM

BATTEN COUNT: 5

COMPACT

SIZE	BOOM	LUFF	MAST
4,9	175	415	400 / 19
5,3	180	426	400 / 19
5,7	184	438	430 / 21
6,0	189	447	430 / 21
6,3	195	455	430 / 21
6,7	198	470	460 / 25

BEST MAST CHOICE: Simmer SC-6

SECOND MAST CHOICE: Simmer SC-RDM

BATTEN COUNT: 5

SIMMER MASTS –

YOUR SAIL WILL FIT LIKE A GLOVE

All Simmer Sails have been developed using our high performance masts and they are optimized to work 100% together. Each sail has a perfect match among our masts.

SC-RDM
90% Carbon - Wave Our 90% Carbon Prepreg constructed SC RDM. Not only for the radical! This mast will improve the handling of wave sails for everyone. Every rider will appreciate the easier rigging, more comfortable handling, and light "bladey" feeling that the SC RDM gives their rig. Includes standard diameter boom adapter.

SC-10
100% Carbon - Race With the new Tip and Tip, Base and Base technology the SC-10 is among the lightest masts available today. The center of gravity is low and the reflex response ratio is the highest of any mast in our line.

SC-8
75% Carbon - Freerace/Freeride/Freestyle The ultimate Free-race/ride/style mast, features superior durability and very high performance at an excellent value.

SC-6
55% Carbon - Wave/Freestyle/Freeride When durability counts the SC-6 rules. This mast has a slightly reduced diameter and increased wall thickness to make it stronger. Boom area and base diameter is still according to industry standards.

SC-3
30% Carbon - All-round This entry level Carbon mast offers excellent value with maintained top quality and durability.

All Simmer masts feature tip and tip, base and base technology - so you can mix and match and replace tips and bases individually.

SC-RDM

LENGTH CM	STIFFNESS MCS	STIFFNESS IMCS	WEIGHT LBS	WEIGHT KG
460	25	25	4.0	2.0
430	25	21	3.9	1.8
400	26	19	3.5	1.6
370	27	17	3.3	1.5

SC-10

LENGTH CM	STIFFNESS MCS	STIFFNESS IMCS	WEIGHT LBS	WEIGHT KG
570	29	39	4.6	2.1
520	27	34	4.6	2.1
490	26	29	3.9	1.8
460	25	25	3.4	1.5
430	25	21	3.0	1.4

SC-8

LENGTH CM	STIFFNESS MCS	STIFFNESS IMCS	WEIGHT LBS	WEIGHT KG
490	26	29	4.2	1.9
460	25	25	3.7	1.7
430	21	21	3.6	1.65

SC-6

LENGTH CM	STIFFNESS MCS	STIFFNESS IMCS	WEIGHT LBS	WEIGHT KG
460	25	25	4.4	2.0
430	25	21	4.2	1.9
400	26	19	4.0	1.8
370	27	17	3.3	1.5

SC-3

LENGTH CM	STIFFNESS MCS	STIFFNESS IMCS	WEIGHT LBS	WEIGHT KG
490	26	29	6.6	3.0
460	25	25	5.9	2.7
430	25	21	5.2	2.4
400	26	19	4.8	2.2

WAIST HARNESS - *Wave*
SIZE: Small, Medium, Large

WAIST HARNESS - *Freeride, Wave*
SIZE: Small, Medium, Large, Extra Large

WAIST HARNESS - *Freeride, Wave*
SIZE: Small, Medium, Large, Extra Large

ACCESSORIES

Quality is king when it comes to Simmer Style accessories. Quality means durability, convenient design features, and for the harnesses, comfort. Constructed from the highest quality materials and components, these accessories will withstand the rigors of worldwide travel and endless on the water abuse.

MAST PROTECTION - *Heavy Duty*

UP HAUL - *Durable*

HARNESS LINES - *Long Life*
SIZE: 22, 24, 26, 28, 30, 32

BOARD BAG - *Durable*
SIZE: 255 cm, 260 cm, 275 cm, 285 cm

BOARD BAG - *Extra durable*
SIZE: 255 cm, 260 cm, 275, 285cm

QUIVER BAG - *With or without wheels*
SIZE: 260 cm, 280 cm, 300cm
Holds more than five sails and several masts.

BACK PACK - *Day pack*
Holds your stuff and stays comfortable all day long.

Stretch control system

System summary-

First introduced in the Simmer 2003 Wave and Freestyle lines, the Kevlar stretch control system has become a fundamental part of all current Simmer designs.

THE CONCEPT IS SIMPLE-

The Simmer Sails Stretch Control System creates a framework of ultra low-stretch Kevlar tendons throughout the sail body to eliminate foil distortion caused by uncontrolled cloth stretch.

WHY DO WE WANT TO ELIMINATE CLOTH STRETCH?

Because cloth stretch causes the sail to distort away from its original, intended shape.

The primary result of this distortion is that the draft of the sail moves up and back when heavily loaded. When the draft moves up and back, the leech gets tighter creating undesirable back hand pressure which means that it requires more physical strength to control the sail, especially as the wind increases. Also, when the leech gets tighter, the airflow release at the leech becomes turbulent. This disturbed air flow drastically reduces top end speed and upwind performance. Think of it like this- if the leech of your sail is tight on the edge, it is comparable to pushing a spoon through the air instead of a blade. Not good.

SO HOW DO WE STOP THIS CLOTH STRETCH AND RESULTING FOIL DISTORTION?

With our stretch control tendon system, the main load lines of the sail have been isolated and identified. It is on these load lines that the most cloth stretch happens. We have installed super lightweight, ultra low stretch tendons directly on these lines to eliminate the cloth stretch. Out of the clew, these load lines cross the entire body of the sail, which is why the clew tendons also cover this whole distance. By aligning these super lightweight tendons directly with the main distorting load lines, the stretch is brought completely under control and the stability of the foil is maintained. The intended foil stays true through a wide range of wind strengths.

Standard reinforcements to control stretch are nothing new. The difference with this system of reinforcements is that we are using small amounts of ultra-low stretch materials, in very specific parts of the sail to achieve our goals. Kevlar stretches just a fraction of the amount of any laminated film or scrim; therefore it is highly effective in this specific application.

There have been many important innovations in the history of windsurfing sail design; battens and “RAF” type foils, control over mast bend, stretch resistant sail cloth and camber inducers, but none of these innovations have effectively addressed the issue of controlling body panel distortion, until now. Stretch control tendons allow us to create sails with much more depth for low end power, without worrying about loss of high end control. More power and more control- the best of both worlds!

Stretch control tendons are the solution.

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