

# HARNESSES AND BAGS

## harness technology

**HARNESS TECHNOLOGY** More comfort for the long and enjoyable rides: A good harness can turn a normal day into something special. It must be quick to put on, adjust to every bodyshape, and be easily tuned to your sailing style and preferred hook position. When you are on the water you hardly feel it. An even pressure distribution is absolutely guaranteed. Our harness range is developed with these guidelines. 8 different models with the key features were designed, one for each discipline. Most of the designs are completely new, with new reinforcement patches, strap positions and seam positions. The patented PRO.LIMIT hook will also prove itself. You will waste less time fiddling with your harness so that you can get on the water sooner. All models give you a direct transfer of power, without getting in the way of manoeuvres: long term fun is guaranteed.

**NEW:** the complete harness range is equipped with the PRO.LIMIT pin release hook.



**comp**  
**FREERIDE < > FORMULA RACE** World Cup race-slaloms harness with a 2 point connection. Comfortable shape and extra patches provide excellent pressure distribution. Sizes S, M, L

**move**  
**WAVE < > FREERACE** Excellent allround harness with great versatility and comfort. Extra straps and pads provide improved back support. 4 point connection. Sizes: S, M, L, XL

**highback**  
**FREERIDE < > RACE** Newly designed high cut allround harness with focus on back support. The 4 point connection and the extra pad in the hip area guarantees a smooth and comfortable fit. Suitable for manoeuvres, race and everything in between. Sizes: S, M, L, XL

**elle**  
**FREEMOVE < > FREERACE** Seat harness with new ELLE cut especially designed to fit the female anatomy. The unique shape guarantees highest comfort and best fit. 4 point connection. Sizes: XS, S, M



**multi travel bag**  
l/w/h 74/38/34 cm. Large travel bag with inline wheels and pull-out handle. Thanks to the mid-loader easy to open and to pack. Inclusive numerous inner compartments.

**onboard bag**  
l/w/h 56/36/23 cm. Comfortable bag in board case format. Accepted as hand size bag and easy to carry thanks to inline wheels and pull-out handle.

**computer case**  
l/w/h 35/7/29 cm. Padded laptop case with lots of innovative compartments, can be attached to the Onboard Bag.

**equipment backpack**  
l/w/h 53/23/33 cm. Takes harness, fins, wetsuit, extension and your girlfriends' towel down to the beach.



**mast bag**  
l/w/h 273/24/18 cm. High-quality padded mast bag holds 3-6 masts.

**mast bag with wheels**  
l/w/h 256, 293/34/14 cm. Available in two different lengths. High-quality mast bag protects 4-8 masts.

**mast quiver bag with wheels**  
wave/freestyle l/w/h 244/42/30 cm. Large quiver bag with integrated, padded mast bag. Webbing channels prevent squashed sails when attached to the roof-rack.

**boom bag**  
l/w/h 180, 230/60/18 cm. Available in 2 different lengths. Thick padded bag with inner straps, stores 5-6 booms.

**mast quiver bag with wheels**  
race l/w/h 292/42/30 cm. Large race quiver bag with integrated, padded mast bag with inline wheels. Webbing-channels prevent squashed sails when attached to the roof-rack.



**vario quiver bag**  
l/w/h 250+14+14/42/30 cm. Length adjustable quiver bag with heavy-duty zipper for maximum strength.

**weekend bag**  
l/w/h 55/28/26 cm. The perfect bag for short trips or the gym. One side compartment and a large main compartment provide a good overall view.

**gear bag**  
l/w/h 70/30/33 cm. Practical equipment bag with front loader, wet compartment, side compartment for tools etc. and main compartment. The right choice to organize the trunk of your car.

**professional gear bag**  
l/w/h 82/34/34 cm. Professional equipment bag with inline wheels. Comes with detachable fin bag, harness bag, fold-out foot pad to stay clean while changing suits. Features a large main and wet compartment as well as additional storage space.



## THE STARS 2003

### NORTH SAILS WINDSURFING



K 66 | NIK BAKER

twins, are sitting together with the Jensen brothers, Vidar and Orjan in the Jensen's apartment. They hack in the results of today's tests in their computers. Hard work is made even harder at Pozo, with winds consistently 30 knots plus and the shore break reaching mast high, it's one of the best places in the world to test small sails and jumping qualities. The new VOODOO, INSTINCT and SUPERSTAR were on the test menu and everybody knows how much Kai needs their feedback.

Back to Hookipa... In the meantime Micah and Nik were on the water more than an hour. As if planned they meet on the beach after a big set to exchange first impressions. Improvements in handling, a little more luff tension for higher wind, the new setup seems to work pretty well altogether. After changing the rigs again they go on shooting through the waves to compare their gear. Radical bottom turns, a back loop from Nik as high as a skyscraper, a goiter and a few tricks in the direction of the shore. They shout words of encouragement to each other while managing their way through the white water.

## team power

**TUESDAY, 10:23AM.** An old Chevy Pick Up rolls into Haiku. The exhaust pipe is only fixed with one screw and the oil track reveals a lot of the 300.000 miles on the speedometer. On the tail-gate the gear piles up, waiting to hit the water. Micah Buzianis presses the horn and after repeating this twice Nik Baker comes out of the door of his winter pad. After loading up another two boards and four rigs the truck is on its way to Hookipa.

The weather is supposed to be fine; a few clouds over the bay seem to fade moving towards Haleakala a few miles away. While driving it becomes quite clear that the wind has increased during the last hour. Nik takes a last sip from the coffee cup before they finally reach their destination. Hookipa Beach Park is already reaching maximum capacity with the parking lot jam-packed, but Micah skilfully manoeuvres into some free space right next to the guys from Paia Connection. "Lookin' good" are the last words before both of them fully concentrate

on rigging the sails, sails from NORTH SAILS as well as sails from other competing brands. Nik and Micah's task is to compare the on the water performance of the new SUPERSTAR, INSTINCT, TRIPLE XXX to the corresponding sails from the competitors. Only a week ago the final prototypes arrived from NORTH SAILS' loft in Haiku. After a detailed briefing, Australian designer and ex world cupper Kai Hopf handed over the sails to Nik and Micah. Due to the lack of waves they headed straight over to Kanaha Beach Park to do the mandatory flat water performance check. Now that it seems a big swell has finally reached the North Shore it's time to tear apart some big waves at Hookipa.

**AT THE SAME TIME IN GRAN CANARIA...** which is one of the toughest spots in Europe; nowhere else is the wind more merciless and the beaches harder to reach than in Gran Canaria. Fast breaking waves, tough locals and of course the critical eye of the press is the daily program. You have to give more than 100% if you want to be at the top. And there is no time for a break: Daida and Iballa Ruano Moreno, better known as the Moreno





K 66 | NIK BAKER

Unbelievable breaks, deserted bays and action of the highest level are documented by the pictures on the first pages. A real paradise! Perfectly shaped sets, glittering white caps: on a few days the point breaks are unbelievable, shaping unreal sets of waves, so clean and long, that even some team riders have to leave the water. Fully exhausted they sit on the beach watching the scene while Kai is already approaching them with his notebook in hand.

**STORIES LIKE THIS MAKE OUR HISTORY.** It is about obsessed windsurfers for who only this one thing counts – they have been at the most important spots all over the world to give all they have. Many years ago we found the Pros at these places who were responsible for the decisive steps in our development. We hand moulded them into the NORTH SAILS International Research & Development Team, detected their strengths, supported them and let them do what they wanted to do: even more windsurfing. The result is a team that has learned to work successfully and effectively together: on the water as well as in the sail loft and in distribution. Beginning with the

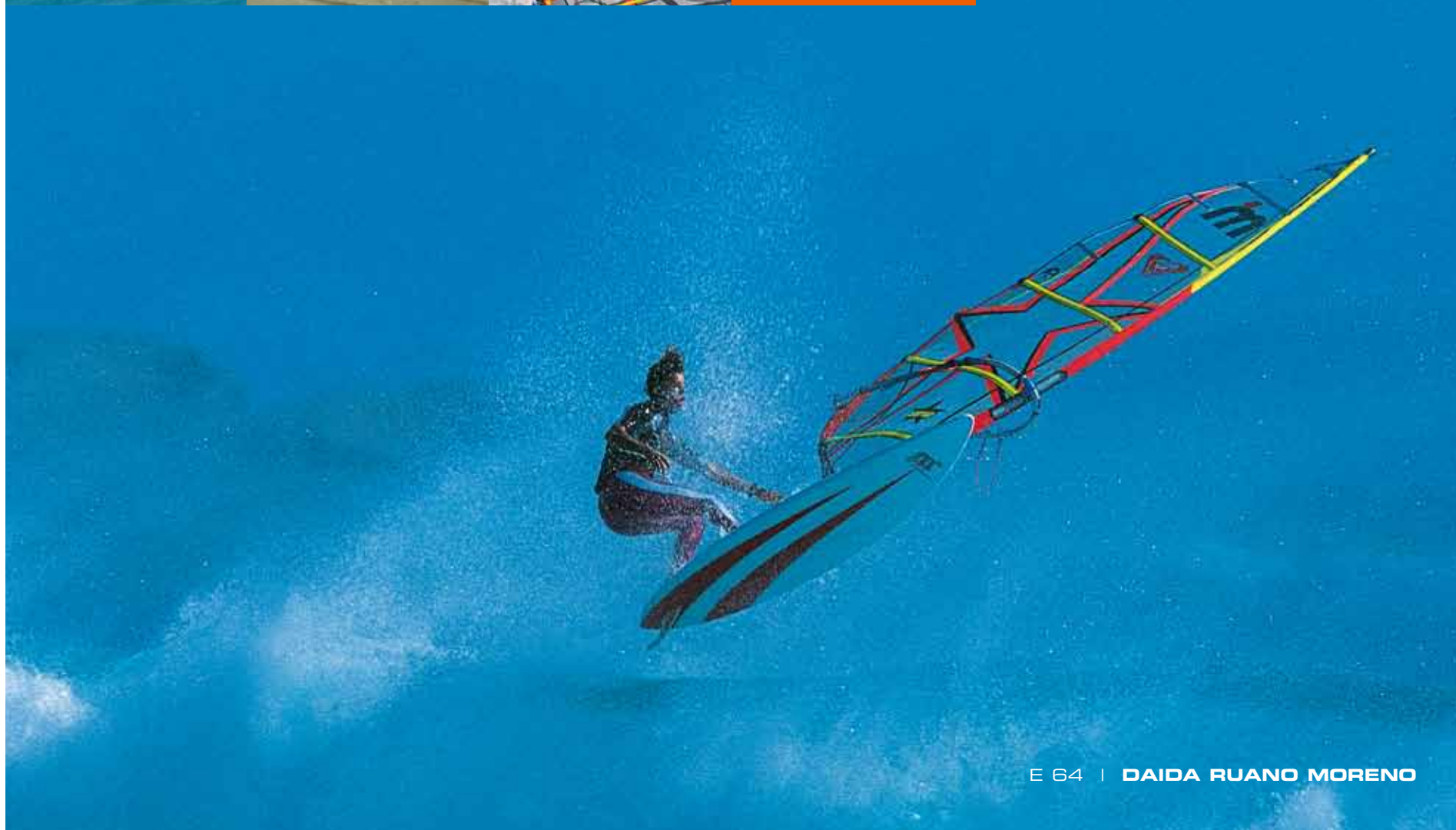
Kai shows up around noon with foot-long sandwiches and some cokes from Subway. Kai is waiting for first comments while Nik and Micah start eating. They comment and discuss between tuna and chicken. Micah and Nik describe exactly the advantages and disadvantages of each concept and give constructive criticism to areas that need improvement. Kai takes notes carefully. Straight after leaving Hookipa Beach Park, Kai races back to the computer to figure out changes that need to be made on the luff to increase the elasticity demanded by Micah and Nik. A few days later the result is named: TRIAX.LUFF. On the same day an e-mail arrives at the loft. Sender: Daida Moreno, GC. Two days later 6 new prototypes are leaving the loft and the country straight to Pozo.

**2 WEEKS LATER IN WESTERN AUSTRALIA...** Everybody from the NORTH SAILS team meets in Perth to test this year's wave range prototypes for final approval. Margaret River, Geraldton and Gnaraloo are noted in the road book. In addition Kai as a local shows spots that were almost unexplored by surfers. Never before have the conditions been better "down under".

product manager, the heads of the production, the sail designers, the team riders and ending with the marketing. This hard core team has been working close together for 10 years now, a complete unique constellation which creates amazing synergy that is found nowhere in the entire windsurfing industry. These unique bonds between many experienced professionals, together with the team power, are the secrets for our superior products and the key to success. We love doing all this for one reason: NORTH SAILS fans all over the world. Maybe we will meet somewhere at your home spot soon...



AUSTRALIA



E 64 | DAIDA RUANO MORENO



WINDSURF TECHNOLOGY  
WWW.NORTH-WINDSURF.COM



BEST SHOT 2003

H 90 | ERIK TROOSTHEIDE



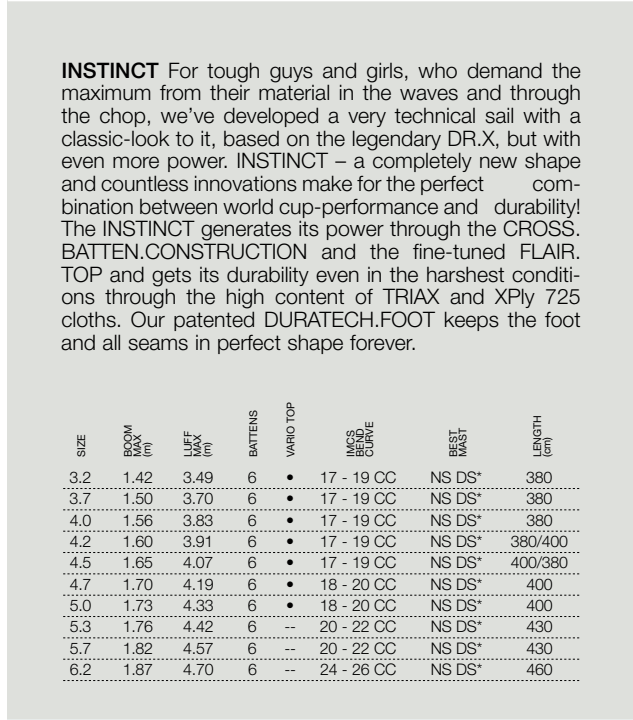


**SUPERSTAR** ★  
K 66 | NIK BAKER



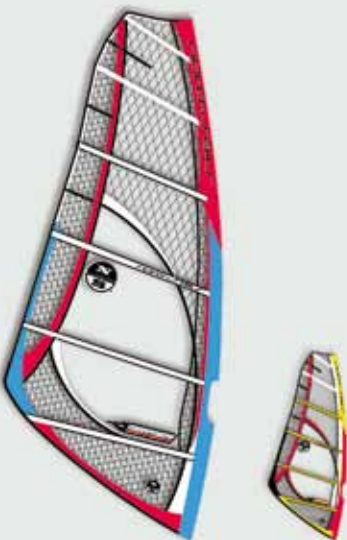
**SUPERSTAR** Let's face it: the name is offending. But not undeserving as the successor of the legendary DR.X. The SUPERSTAR is our lightest and most radical world cup-wave sail, which redefines optic and dynamic in the waves. Sexy, wild and all set for winning. Technical highlights such as CROSS.BATTEN.CONSTRUCTION or the refined FLAIR.TOP do confirm this demand and produce good power. Compared to other stars the new SUPERSTAR is extremely easy to handle due to the shortest boom length of all NORTH SAILS. Not to forget that Daida Ruano Moreno became Wave World Champion using the SUPERSTAR.

SIZE	BOOM MAX FT	LUFF FT	BATTENS	FLAIR TOP	INCHES HEAD FOOT	BEST BEST	LENGTH CM
3.7	1.53	3.71	6	•	17 - 19 CC	NS DS*	380
4.0	1.56	3.82	6	•	17 - 19 CC	NS DS*	380/400
4.2	1.59	3.93	6	•	17 - 19 CC	NS DS*	380/400
4.5	1.65	4.07	6	•	17 - 19 CC	NS DS*	400/380
4.7	1.68	4.19	6	•	18 - 20 CC	NS DS*	400
5.0	1.71	4.33	6	•	18 - 20 CC	NS DS*	400
5.3	1.74	4.46	6	•	20 - 22 CC	NS DS*	430
5.7	1.80	4.57	6	•	20 - 22 CC	NS DS*	430



**INSTINCT** For tough guys and girls, who demand the maximum from their material in the waves and through the chop, we've developed a very technical sail with a classic-look to it, based on the legendary DR.X, but with even more power. INSTINCT – a completely new shape and countless innovations make for the perfect combination between world cup-performance and durability! The INSTINCT generates its power through the CROSS.BATTEN.CONSTRUCTION and the fine-tuned FLAIR.TOP and gets its durability even in the harshest conditions through the high content of TRIAX and XPly 725 cloths. Our patented DURATECH.FOOT keeps the foot and all seams in perfect shape forever.

SIZE	BOOM MAX FT	LUFF FT	BATTENS	FLAIR TOP	INCHES HEAD FOOT	BEST BEST	LENGTH CM
3.2	1.42	3.49	6	•	17 - 19 CC	NS DS*	380
3.7	1.50	3.73	6	•	17 - 19 CC	NS DS*	380
4.0	1.56	3.83	6	•	17 - 19 CC	NS DS*	380
4.2	1.60	3.91	6	•	17 - 19 CC	NS DS*	380/400
4.5	1.65	4.07	6	•	17 - 19 CC	NS DS*	400/380
4.7	1.70	4.19	6	•	18 - 20 CC	NS DS*	400
5.0	1.73	4.33	6	•	18 - 20 CC	NS DS*	400
5.3	1.76	4.42	6	•	20 - 22 CC	NS DS*	430
5.7	1.82	4.57	6	•	20 - 22 CC	NS DS*	430
6.2	1.87	4.70	6	•	24 - 26 CC	NS DS*	460



**INSTINCT** ★  
N 44 | VIDAR JENSEN

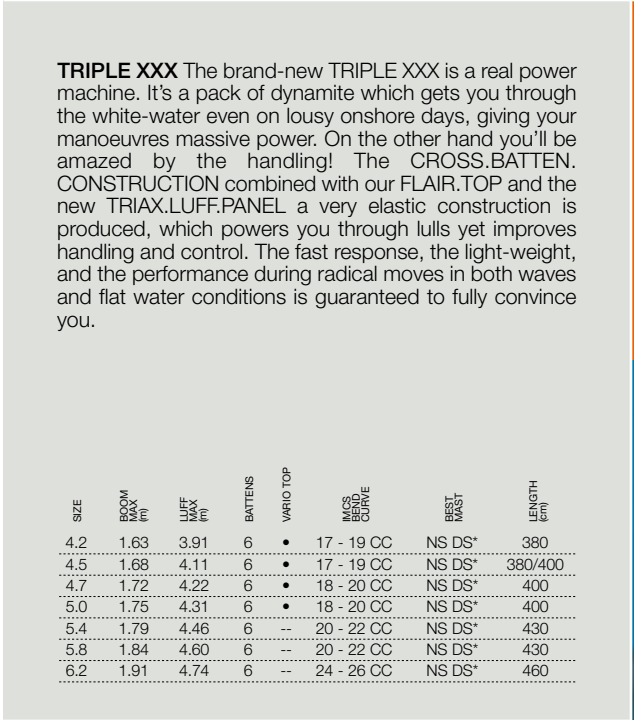


**VOODOO** ★  
E 19 | ORJAN JENSEN



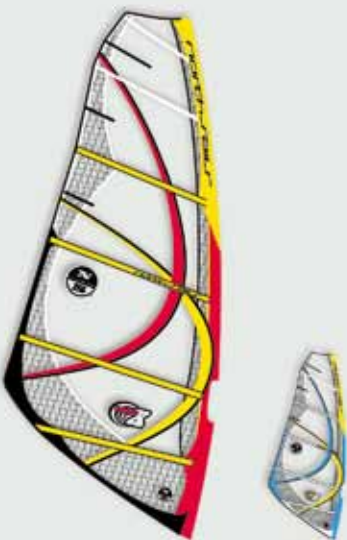
**VOODOO** With this sail we have only one goal: bomb proof. No wonder that the latest version still comes without any monofilm. Just the most durable materials and cloths are used. Whatever happens, the new VODOO will pop out of any wave in one piece; no matter how radical the conditions get. Last but not least, the whole VODOO range is designed to work on the 400/19 mast: "One mast fits all"!

SIZE	BOOM MAX FT	LUFF FT	BATTENS	FLAIR TOP	INCHES HEAD FOOT	BEST BEST	LENGTH CM
3.0	1.41	3.47	6	•	17 - 19 CC	NS DS*	380/400
3.4	1.48	3.64	6	•	17 - 19 CC	NS DS*	380/400
3.7	1.53	3.76	6	•	17 - 19 CC	NS DS*	380/400
4.0	1.58	3.89	6	•	17 - 19 CC	NS DS*	380/400
4.2	1.62	3.99	6	•	17 - 19 CC	NS DS*	400
4.5	1.67	4.09	6	•	18 - 20 CC	NS DS*	400
4.7	1.71	4.20	6	•	18 - 20 CC	NS DS*	400
5.0	1.74	4.35	6	•	18 - 20 CC	NS DS*	400
5.3	1.76	4.38	6	•	19 - 21 CC	NS DS*	400/430



**TRIPLE XXX** The brand-new TRIPLE XXX is a real power machine. It's a pack of dynamite which gets you through the white-water even on lousy onshore days, giving your manoeuvres massive power. On the other hand you'll be amazed by the handling! The CROSS.BATTEN.CONSTRUCTION combined with our FLAIR.TOP and the new TRIAX.LUFF.PANEL a very elastic construction is produced, which powers you through lulls yet improves handling and control. The fast response, the light-weight, and the performance during radical moves in both waves and flat water conditions is guaranteed to fully convince you.

SIZE	BOOM MAX FT	LUFF FT	BATTENS	FLAIR TOP	INCHES HEAD FOOT	BEST BEST	LENGTH CM
4.2	1.63	3.91	6	•	17 - 19 CC	NS DS*	380
4.5	1.68	4.11	6	•	17 - 19 CC	NS DS*	380/400
4.7	1.72	4.22	6	•	18 - 20 CC	NS DS*	400
5.0	1.75	4.31	6	•	18 - 20 CC	NS DS*	400
5.4	1.79	4.46	6	•	20 - 22 CC	NS DS*	430
5.8	1.84	4.60	6	•	20 - 22 CC	NS DS*	430
6.2	1.91	4.74	6	•	24 - 26 CC	NS DS*	460



**TRIPLE XXX** ★  
US 34 | MICAH BUZANIS





# DISCO★

US 002 | WEB PEDRICK



**DISCO** It's show time! Cool moves, insane tricks and the full attention of the public – all inclusive with the new DISCO. You'll be the first to get planing, taking advantage of the perfect sail balance. Soon you will be performing moves which you already started to give up learning. Due to the ultra-light DYNAMIC.TOP.BATTEN, the new TRIAX.LUFF.PANEL and the legendary CROSS.BATTEN. TECHNOLOGY everything becomes so easy over an incredible wide wind range. Through a slightly wider mast sleeve the new DISCO makes you also look good during difficult stall tricks.

SIZE	BOOM MAX FT	LUFF FT	BATTENS	WIND TOP	MAST SLEEVE	BEST WIND	LENGTH CM
5.4	1.82	4.46	5	1	20 - 22 CC	NS DS*	430
5.9	1.87	4.60	5	1	20 - 22 CC	NS DS*	430
6.4	1.93	4.76	5	1	24 - 26 CC	NS DS*	460
6.9	1.97	4.96	5	1	24 - 26 CC	NS DS*	460



**DISCO COMP** The non-compromising competition-version. You not only impress the bouncer but have the perfect toy to dance in the first row. Therefore our designers have created the new STRAIGHT.FOOT. GEOMETRY, which completely eliminates the foot batten making duck-tricks child's play. With the limited use of reinforcements, numerous improvements and the elimination of the foot batten the DISCO COMP became the lightest freestyle sail on the market – and instantly became the "King" at the King of the Lake 2002! Attention: the DISCO COMP is a pro-sail, which wants to be sailed actively especially in the low end!

SIZE	BOOM MAX FT	LUFF FT	BATTENS	WIND TOP	MAST SLEEVE	BEST WIND	LENGTH CM
5.9	1.89	4.60	5	1	20 - 22 CC	NS DS*	430
6.4	1.94	4.79	5	1	24 - 26 CC	NS DS*	460
6.9	2.00	4.96	5	1	24 - 26 CC	NS DS*	460



# DISCO COMP★

K 66 | NIK BAKER



# NATURAL★

K 66 | NIK BAKER



**CROSSFIRE** Speed thrills – still one of the biggest fascinations. To fly effortless with v-max over the water our race team created the brand-new CROSSFIRE together with our designers – a nocam racing machine. The CROSSFIRE leads the fleet on all courses with effortless rotation and easy handling. From the start this 7 batten racing machine accelerates very fast and the top speed is frightening. The FLIP.ROTATING.SYSTEM – the contact-free batten transition – has an extremely positive effect on jibing, water starting and ease of rigging. Same counts for the top which became remarkably lighter due to the DYNAMIC.TOP.BATTEN. Attention: for extreme upwind- and downwind courses the camber-supported sails FORMULA WARP and MATCH RACE offer more performance.

SIZE	BOOM MAX FT	LUFF FT	BATTENS	WIND TOP	MAST SLEEVE	BEST WIND	LENGTH CM
6.6	1.98	4.70	7	1	24 - 26 CC	NS DS*	460
7.3	2.11	4.88	7	1	25 - 27 CC	NS DS*	460
7.8	2.20	5.00	7	1	26 - 28 CC	NS DS*	490
8.2	2.27	5.10	7	1	27 - 29 CC	NS DS*	490
8.8	2.37	5.25	7	1	28 - 30 CC	NS DS*	490



# CROSSFIRE★

US 34 | MICAH BUZANIS



**NATURAL** No doubt, with the all-new NATURAL wind-surfing becomes easier, less complicated and the material choice will be a lot easier. The recipe: take a very balanced shape, design the sizes up to 6.2 as Freemove sails (focus on handling and control) and the bigger sizes as Freeride sails (focus on planing and handling). Exchange the regular top batten into a DYNAMIC.TOP. BATTEN to reduce the top-weight, use more TRIAX-material for even improved durability and reduce the foot roach in the small sizes to make them suitable even for small waves. The result is a perfect synthesis of speed, acceleration and handling or to make it short: the all-new NATURAL. All of a sudden you learn moves which you never dreamed possible and jibes become effortless.

SIZE	BOOM MAX FT	LUFF FT	BATTENS	WIND TOP	MAST SLEEVE	BEST WIND	LENGTH CM
5.0	1.72	4.25	6	1	19 - 21 CC	NS DS*	430
5.4	1.80	4.37	6	1	20 - 22 CC	NS DS*	430
5.8	1.87	4.50	6	1	21 - 23 CC	NS DS*	430
6.2	1.95	4.60	6	1	21 - 23 CC	NS DS*	430
6.6	2.02	4.70	6	1	23 - 25 CC	NS DS*	460
7.0	2.08	4.85	6	1	24 - 26 CC	NS DS*	460
7.5	2.16	5.00	6	1	25 - 27 CC	NS DS*	460
8.1	2.25	5.17	6	1	26 - 28 CC	NS DS*	490





FREERIDE WIDEBODY

KC 1 | SAM IRELAND

SIZE	BOOM cm in	LUFF cm in	BATTENS	CAMBER	VARIO TOP	MISC BOARD CLASSE	BEST WAST	LENGTH cm in
6.5	1.98	4.70	6	12	1	24 - 26 CC	NS DS*	460
7.5	2.20	4.90	6	12	1	25 - 27 CC	NS DS*	460
8.5	2.40	5.10	6	12	1	27 - 29 CC	NS DS*	490
9.5	2.57	5.30	6	12	1	28 - 30 CC	NS DS*	490/510
10.5	2.75	5.47	7	2	1	30 - 32 CC	NS DS*	510

**R-TYPE** There was a time... when windsurfing used to be double the fun – no, stop, we simply spent double the time on the water! At that time it didn't matter very much how strong the wind was, just getting out with your friends and having fun trying out new things was a blast no matter what the wind was blowing. During the years we all got better, some even way better. This brought up the problem that the conditions also had to get better: more wind, higher waves and more extreme moves.

Soon it seemed that without planing windsurfing was nothing and the amount of active days went down and down until one day the racing scene was forced (by the reduced wind limit) to develop shorter and wider boards. These boards planed extremely easy and on top became very stable. The next step was to modify these boards so that they could also be used by regular skilled guys. This is how the widebody-boards of today were generated. They are short and wide, plane extremely easily, get very fast, are easy to turn and are stable on the water.

hardly can tell a difference compared to a noncambered sail. On the other hand they produce a permanent and stable profile, which produces maximum low end and remains stable even without wind pressure. And for the handling the PRO.CAM II is unbeatable.

With the new R-TYPE we bring back what many missed over the last years: windsurfing in its most uncomplicated form, every day at any spot.

They do have exactly what was missing for a long time: a board which you can use at any wind providing fun even when it's light.

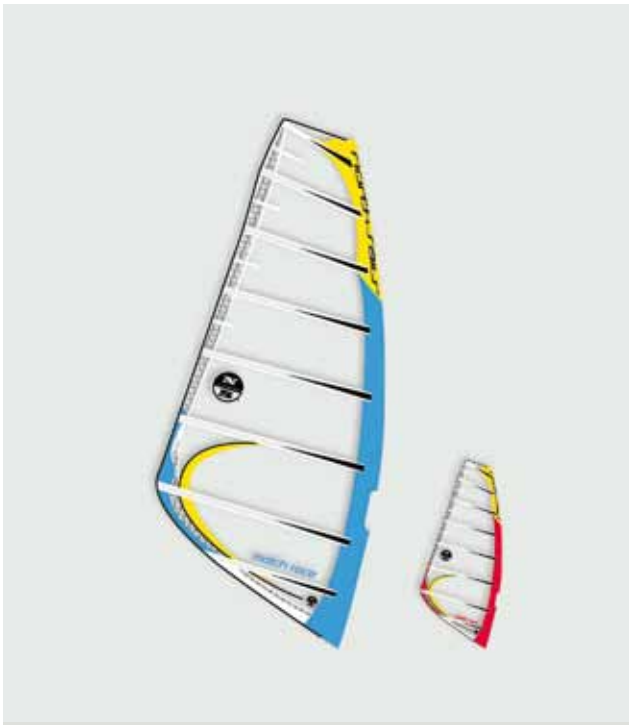
Why this history-breakdown? Well because as the first manufacturer we've developed a sail for this successful board class. A sail which is designed for planing- as well as for light wind conditions and perfectly matches with all Widebodies. Its name: R-TYPE.

With the R-TYPE our designers have created a smooth driving machine, which makes for unmatched low end performance due to its low end profile and the FLAIR.TOP outline. Keeping the weight low is an essential factor for the use in light winds, the R-TYPE uses 6 ultralight battens only (except 10.5), where 4 of which are ultrastiff BOX.BATTEN. To guarantee a 100% stable profile, which in contrary to nocam sails shows a profile even without wind pressure, the legendary PRO.CAM II soft camber comes back into use.

On the one hand the PRO.CAM II rotate so soft, that you



R-TYPE  
KC 1 | SAM IRELAND



**MATCH RACE** The brand-new MATCH RACE is a winner in every aspect. Lightning-fast planing and maximum acceleration catapult you immediately to v-max. Due to the deep profile the MATCH RACE planes and accelerates better than the CROSSFIRE and with just 2 cams and a shorter luff offers more comfort than the FORMULA WARP. The adjusted leech area offers an even more controlled feeling and in combination with the 4 super-stiff BOX.BATTEN this leads to an unmatched high-end control. This very compact and speed-oriented freerace sail with its light FLAIR.TOP and DYNAMIC.TOP.BATTEN fits to any "speed-addicted" board.

SIZE	BOOM cm in	LUFF cm in	BATTENS	CAMBER	VARIO TOP	MISC BOARD CLASSE	BEST WAST	LENGTH cm in
7.0	2.07	4.77	6	12	1	24 - 26 CC	NS DS*	460
7.8	2.20	5.00	6	12	1	26 - 28 CC	NS DS*	490
8.8	2.36	5.25	6	12	1	28 - 30 CC	NS DS*	510/490

FORMULA WARP  
US 34 | MICAH BUZIANIS

MATCH RACE  
US 34 | MICAH BUZIANIS

FREERACE CAM

**FORMULA RACE**

**FORMULA WARP**  
US 34 | MICAH BUZIANIS

**FORMULA WARP** Vice-world champion Micah Buzianis developed a Formula dream machine together with our designers – and here it is. The Formula-1 machine among the sails, derived directly from the World Cup. Following the new rules the design team fully concentrated on the relevant sizes necessary for winning; maximum low end power to match the minimum wind limit, maximum speed on deep downwind courses and unbeatable upwind performance. Even completely overpowered the FORMULA WARP remains controllable due to 4 hollow BOX.BATTEN (2 out of Carbon!) and 4 cambers. An absolute specialist sail developed for high-end racer exclusively.

SIZE	BOOM cm in	LUFF cm in	BATTENS	CAMBER	VARIO TOP	MISC BOARD CLASSE	BEST WAST	LENGTH cm in
8.2	2.28	5.15	8	4	1	28 - 30 CC	NS VR**	490
9.0	2.41	5.32	8	4	1	31 - 33 CC	NS VR**	520
9.8	2.54	5.50	8	4	1	32 - 34 CC	NS VR**	520
10.7	2.73	5.70	8	4	1	35 - 37 CC	NS VR**	550
11.9	2.85	5.87	8	4	1	38 - 40 CC	NS VR**	580
12.5	2.98	5.97	8	4	1	38 - 40 CC	NS VR**	580

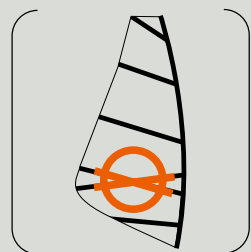




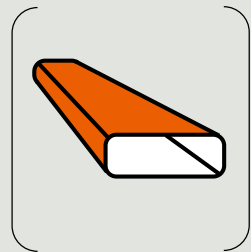
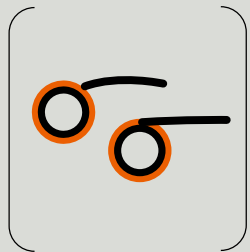
**★ DURATECH FOOT**



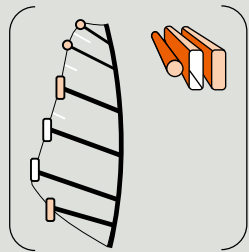
 **CROSS  
BATTEN  
CONCEPT**



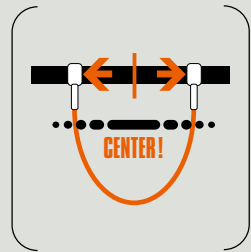
**★ FLIP  
ROTATING  
SYSTEM**



**★ INTELLIGENT  
BATTEN**



# HARNESS LINE TRIM SYSTEM



E 63 | IBALLA RUANO MORENO



GENERAL				PERFORMANCE DIFFERENTIATION				GENERAL DIFFERENTIATION			CONDITIONS		
SAIL LINE	SAIL TYPE	CHARACTERISTICS	SIZES	HIGH END CONTROL	HANDLING ROTATION / WAVE	LOW END POWER / ELASTICITY	RELATION PERFORMANCE TO HANDLING	SAILOR'S WEIGHT	BUILT IN STRENGTH / DURABILITY	BOOM LENGTH (5.0)	SIDE SHORE	ON SHORE	FLAT WATER
VOODOO	Hardcore Wave	The VODOO combines a Hardcore Monofilm-free construction with good performance making it one of the finest wave sails around.	3.0-5.3	★★★★★	★★★★	★★★★	30% / 70%	any weight	★★★★★	174 cm	★★★★	★★★★	★★★
INSTINCT	World Cup Wave	Derived from the DR.X, but with additional use of X.PLY 725 in the upper center panel and a little more power. The result is the most versatile wave sail, designed to work and survive in all kinds of wave and bump n' jump conditions.	3.2-6.2	★★★★	★★★★★	★★★★★	30% / 70%	any weight	★★★★★	173 cm	★★★★★	★★★★	★★★
SUPERSTAR	World Cup Wave	Successor of the legendary DR.X, the SUPERSTAR is North Sails' radical world cup wave sail, designed to work in all kinds of wave conditions. Features the shortest boom length of all NORTH SAILS' wave sails making for the most radical handling.	3.7-5.7	★★★★★	★★★★★	★★★★★	30% / 70%	any weight	★★★★	171 cm	★★★★★	★★★★	★★★
TRIPLE XXX	Crossover powerwave-freestyle	The new TRIPLE XXX is the most powerful wave sail available. Yet Kai's new TRIAX LUFFPANEL increases the elasticity again making for smooth control.	3.8-6.2	★★★★	★★★★★	★★★★★	35% / 65%	> 80 kg	★★★★	176 cm	★★★★	★★★★★	★★★★



GENERAL				PERFORMANCE DIFFERENTIATION				GENERAL DIFFERENTIATION		
SAIL LINE	SAIL TYPE	CHARACTERISTICS	SIZES	HIGH END CONTROL / SPEED	HANDLING ROTATION	LOW END POWER / ELASTICITY	RELATION PERFORMANCE TO HANDLING	REQUIRED SKILL LEVEL OF SAILOR	BUILT IN STRENGTH / DURABILITY	BOOM LENGTH (5.8/5.9)
DISCO	Crossover freestyle-freemove	The most performance oriented Freestyle sail on the market. It's the perfect synthesis between a modern Freestyle and a Freemove sail.	5.4-6.9	*****	*****	*****	45% / 55%	Low- medium	***	187 cm (5.9 qm)
DISCO COMP	Freestyle competition	Kai Hopf's latest strike for radical Freestyle guys. With the new STRAIGHT.FOOT. GEOMETRY the DISCO COMP sets a new standard in handling – the perfect Freestyle Competition sail.	5.9-6.9	*****	*****	****	40% / 60%	High (Professional racer)	***	189 cm (5.9 qm)
NATURAL	Crossover freemove-freeride	Successor of the TONIX – the NATURAL is designed to work as a Freemove sail in the smaller sizes (up to 6.2) with focus on handling and high end. The bigger sizes are suited towards Freeride customers focusing on handling and low end power.	5.0-8.1	*****	****	*****	50% / 50%	Low- medium	****	187 cm (5.8 qm)



GENERAL				PERFORMANCE DIFFERENTIATION				GENERAL DIFFERENTIATION		
SAIL LINE	SAIL TYPE	CHARACTERISTICS	SIZES	HIGH END CONTROL / SPEED	HANDLING ROTATION	LOW END POWER / EARLY PLANNING	POINTING UPWIND	REQUIRED SKILL LEVEL OF SAILOR	RELATION PERFORMANCE TO HANDLING	BOOM LENGTH (8.5-9.0)
R-TYPE	Freeride widebody	The R-TYPE marks a completely new sail concept designed purely for Wide Body Boards – works in planing- AND nonplaning conditions.	6.5-10.5	***	*****	*****	****	Low- medium	60% / 40%	240 cm (8.5 qm)
CROSSFIRE	Freerace nocam	Successor of the TRANS AM – the CROSSFIRE is a 7 batten nocam Freerace sail giving you all the speed you need without suffering in handling and comfort.	6.6-8.8	****	*****	****	***	Low- medium	60% / 40%	237 cm (8.8 qm)
MATCH RACE	Freerace cam	Low end power machine featuring Larry Herbig's latest innovation. The HYPER-LEECH, 8 battens and 2 cams make for an incredible wide wind range.	7.0-8.8	*****	****	****	*****	Medium –high	70% / 30%	236 cm (8.8 qm)
FORMULA WARP	Formula Race	First choice for competition oriented Formula sailors featuring FLAIR.TOP and HYPER-LEECH for even more speed and control.	8.2-12.5	*****	***	***	*****	High (Professional racer)	80% / 20%	241 cm (9.0 qm)





xcomposite 50

**WAVE < > FREERACE** High quality, super-stiff carbon-composite boom with rock-solid performance. The magic behind the boom is in the construction, which is made of different fiber composites, including a high carbon content. The tubes, end-tubes and end-pieces are manufactured from this composite. The combination of the thin tube diameter, the PRO.GRESSION II front end and composite materials provide a high performance and high quality boom, previously not available at this price.

TYPE	LENGTH (cm)	SAIL RANGE (sq. m)	WEIGHT (kg)
S	150 - 200	3.7 - 6.9	2.55
M	170 - 220	4.5 - 7.5	2.70
L	200 - 250	6.6 - 9.0	2.95
XL	200 - 250	8.1 - 10.5	3.10

progression

**WAVE < > FREERIDE** The PRO.GRESSION can be taken apart in seconds and allows you to use different tube sizes. Each length has an individual bend curve, so the PRO.GRESSION fits all sail types. The waterproof SNAP.LOCK IV secures the boom length and prevents the tubes from twisting. More advantages are the reliable PRO.GRESSION II front end, combining maximum durability with safety and high comfort and the thin RDM tubes with the oval SQUASH.GRIP® sections and a comfortable grip.

TYPE	LENGTH (cm)	SAIL RANGE (sq. m)	WEIGHT (kg)
A	140 - 190	3.0 - 6.4	2.40
A+	150 - 200	3.7 - 6.9	2.45
B	165 - 215	4.5 - 7.3	2.55
B+	185 - 235	6.0 - 8.1	2.70
C	205 - 255	7.0 - 9.0	2.90



viper technology

**THE ULTIMATE WORLD CUP TECHNOLOGY** offers new dimensions in performance and weight. The secret is the computer-controlled resin-carbon fiber ratio as well as the high compression used during production (up to 10 tons). With the combination of rolling and the aerospace pre-preg technology, the amount of resin is reduced and the use of 100% carbon (75% with the VIPER 75) makes masts like the VIPER AERO possible, the world's lightest mast.

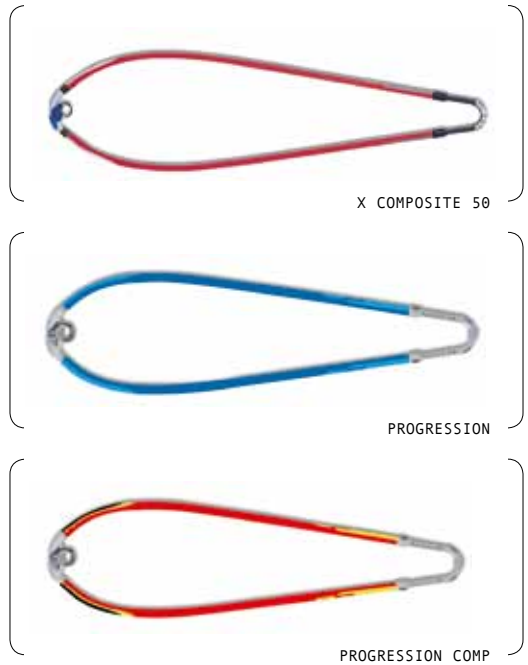


KC 25 | MARTIN VAN GEENHOVEN

boom technology

**VARIETY IS THE ANSWER!** Our selection of booms creates some difficult choices. You may have to find a balance between your needs and your wallet. But we promise that we can offer the perfect boom for everyone. This variety is our strength, making each boom what everybody expects from NORTH SAILS: performance, designed for a specific range of use, secure and comfortable. No wonder that they are a best-seller worldwide.

The front-end plays an essential role in comfort and security. It was a big focus point in the past, and now we can proudly present the most successful front-end on the market. The 2003 boom models excel with perfect function, the easy to use clamp system, high stiffness and an optimum fit without slipping on the mast. Despite the tight fit on the mast, the PRO.GRESSION II absorbs shocks very well, enabling a very comfortable and direct connection to the rig.



progression comp

**WAVE < > FREERACE** Thanks to the bolted-on front end and the one piece rear end, this even stiffer version of the PRO.GRESSION delivers power directly without collapsing even one millimetre (boom can not be taken apart). It also has thin RDM tubes with oval SQUASH.GRIP® sections which give a comfortable grip without affecting the durability and stiffness. The range consists of 5 different boom lengths. The PRO.GRESSION COMP makes a perfect boom for all sail types from wave to freerace.

TYPE	LENGTH (cm)	SAIL RANGE (sq. m)	WEIGHT (kg)
A	140 - 190	3.0 - 6.4	2.40
A+	150 - 200	3.7 - 6.9	2.45
B	165 - 215	4.5 - 7.3	2.55
B+	185 - 235	6.0 - 8.1	2.70
C	205 - 255	7.0 - 9.0	2.90

carbon freestyle

**WAVE, FREESTYLE** Super nice high performance boom in FULL.CARBON.CONSTRUCTION, which meets the demands of our freestyle team in every respect. Maximum stiffness guarantees pure performance and keeps the center of effort stable. The low weight doesn't suck either. The non-skid rear-end provides grip for Duck Tacks and Duck Jibes. One size covers all freestyle/freemove sail sizes (3.8 to 6.9).

TYPE	LENGTH (cm)	SAIL RANGE (sq. m)	WEIGHT (kg)
S	150 - 200	3.7 - 6.9	2.30

carbon wave

**WAVE < > FREEMOVE** The CARBON.WAVE is exclusively developed by full-on wave professionals. A specific bend curve, designed for the demands of wave sailing, guarantees the sailor will have both hands an even distance from the center of the sail and provides a balanced rig when riding the waves. Because of the short extension (35 cm), the thin tube diameter remains unchanged all the way to the rear section of the boom, guaranteeing a solid grip in bottom turns. The slightly rough surface of the end-piece gives you a firm grip in Duck Tacks and Duck Jibes. 100% carbon makes the CARBON.WAVE super stiff and so durable, that even the "juiciest" waves won't destroy it.

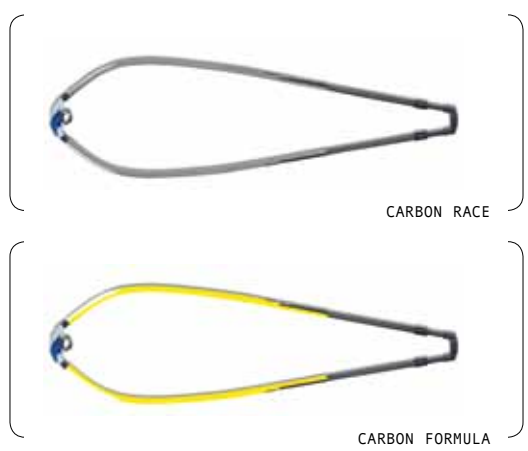
TYPE	LENGTH (cm)	SAIL RANGE (sq. m)	WEIGHT (kg)
XS	140 - 175	3.0 - 4.5	2.20
S	155 - 190	4.0 - 6.2	2.30



carbon race

**FREERIDE < > RACE** World Cup standard and first choice for all performance oriented high end slalom and race sailors. One of the stiffest booms in FULL.CARBON.CONSTRUCTION. Its maximum stiffness transferring every pump motion directly into acceleration and allowing no profile distortion at all in the gusts. Each length has its own bend characteristic, which is focused on use in World Cup racing. Of course the CARBON.RACE still includes the NORTH SAILS ease of use features.

TYPE	LENGTH (cm)	SAIL RANGE (sq. m)	WEIGHT (kg)
XL	200 - 250	7.5 - 9.0	2.80
XXL	225 - 275	8.0 - 10.9	2.95



carbon formula

**FORMULA RACE** The sensational new development, the choice for Formula sails. The exclusive use of high quality carbon and our patented EGG.SHAPE provide another 20% advantage in stiffness. Now each pump motion is transferred even more directly into acceleration and all profile distortions are eliminated. Two different sizes are available covering all Formula sail sizes. The bend curves are individually adjusted by our World Cup race team.

TYPE	LENGTH (cm)	SAIL RANGE (sq. m)	WEIGHT (kg)
I	250 - 300	9.8 - 10.9	3.00
II	270 - 320	10.9 - 12.5	3.20



TYPE	MCS	SAIL RANGE (sq. m)	WEIGHT (kg)	CARBON
430	21 CC	5.0 - 6.2	0.98	100
460	25 CC	6.2 - 7.5	1.15	100

TYPE	MCS	SAIL RANGE (sq. m)	WEIGHT (kg)	CARBON
430	21 CC	5.0 - 6.2	1.20	100
460	25 CC	6.2 - 7.5	1.35	100

TYPE	MCS	SAIL RANGE (sq. m)	WEIGHT (kg)	CARBON
460	25 CC	6.2 - 7.5	1.50	100
490	28 CC	7.4 - 8.8	1.75	100
520	32 CC	9.0 - 9.8	2.05	100
550	36 CC	10.9 - 11.9	2.35	100
580	40 CC	11.9 - 12.5	2.35	100

TYPE	MCS	SAIL RANGE (sq. m)	WEIGHT (kg)	CARBON
380	17 CC	3.0 - 4.5	1.30	100
400	19 CC	3.0 - 5.3	1.40	100
430	21 CC	5.0 - 6.2	1.55	100
460	25 CC	6.2 - 7.5	1.70	100

TYPE	MCS	SAIL RANGE (sq. m)	WEIGHT (kg)	CARBON
390	17 CC	3.0 - 4.5	1.50	75
400	19 CC	3.0 - 5.3	1.65	75
430	21 CC	5.0 - 6.2	1.85	75
460	25 CC	6.2 - 7.5	2.05	75
490	28 CC	7.8 - 8.8	2.25	75
510	30 CC	8.8 - 10.5	2.35	75



TYPE	MCS	SAIL RANGE (sq. m)	WEIGHT (kg)	CARBON
380	17 CC	3.0 - 4.5	1.90	65
400	19 CC	3.0 - 5.3	2.05	65
430	21 CC	5.0 - 6.2	2.15	65
460	25 CC	6.2 - 7.5	2.30	65

TYPE	MCS	SAIL RANGE (sq. m)	WEIGHT (kg)	CARBON
380	17 CC	3.0 - 4.5	2.10	50
400	19 CC	3.0 - 5.3	2.20	50
430	21 CC	5.0 - 6.2	2.30	50
460	25 CC	6.2 - 7.5	2.45	50
490	28 CC	7.8 - 8.8	2.60	50
510	30 CC	8.8 - 10.5	2.70	50

TYPE	MCS	SAIL RANGE (sq. m)	WEIGHT (kg)	CARBON
400	19 CC	3.0 - 5.3	2.40	30
430	21 CC	5.0 - 6.2	2.60	30
460	25 CC	6.2 - 7.5	2.80	30
490	28 CC	7.8 - 8.8	3.00	30



N 44 | VIDAR JENSEN





## WETSUITS

### CROSS★

**CROSS TECHNOLOGY** Wave riding and motocross live off extreme jumps, sick moves and radical action. The best riders are those working hard every day and charging permanently new tricks. Wipe outs and slams are preprogrammed. So we developed a wetsuit that can take it all: CROSS. A suit for professionals, targeted at the new generation of radical wave sailors, surfers and freestylers. With integrated protection, perfect freedom of movement, optimum insulation against the cold and plenty of style to top it off. CROSS – the most radical way to protect your body.



N 44 | VIDAR JENSEN



K 66 | NIK BAKER



N 44 | VIDAR JENSEN



CROSS  
SEMIDRY 5/4



CROSS  
STEAMER 4/3



CROSS  
STEAMER 3/2



CROSS  
SHORTY 2/2



MOVE  
SEMIDRY 5/4



MOVE  
SEMIDRY 4/3

### MOVE★

**MOVE TECHNOLOGY** The 2003 MOVE range is the result of years of experience and a further development of our most successful line. By far the nicest suits within their price level, incorporating a sophisticated panel layout for a unique fit. The use of super stretchy neoprene allows amazing freedom of movement. We have combined heat retention and top quality workmanship with technical features that make the suits easier to get in and out of. Slip into one of the new MOVE suits and instantly forget about the straight jacket you used to call a wetsuit.



MOVE  
STEAMER SKIN 3/2



MOVE  
STEAMER 3/2



MOVE  
SHORTY 2/2



ELLE PROMODEL  
STEAMER 3/2



ELLE PROMODEL  
SHORTY 2/2



ELLE  
SEMIDRY 4/3



ELLE  
STEAMER 4/3



ELLE  
STEAMER 3/2



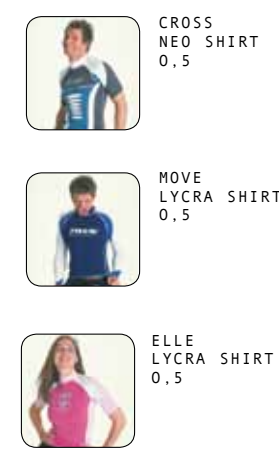
ELLE  
SHORTY 2/2

### ELLE★

**ELLE TECHNOLOGY** Maximum freedom of movement and the best possible protection for active windsurfers who are women. Introducing the brand new ELLE collection. Not just a men's suit adapted for women, but a custom wetsuit line from our female designer. The feminine patterns are arranged to match the female anatomy, which becomes very apparent in the way the suit fits and supports a woman's body. These suits incorporate years of design experience and a special mix of quality materials and functions. The high quality and technical details allow for individual adjustments. This makes getting in and out very easy, as well as providing exceptional comfort. Try the ELLE, and see what a second skin feels like.



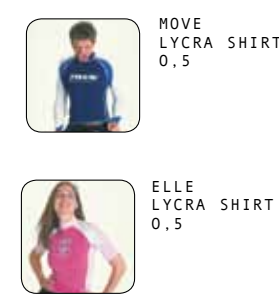
CROSS  
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CROSS  
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MOVE  
NEO SHIRT  
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MOVE  
LYCRA SHIRT  
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ELLE  
NEO SHIRT  
0,5



ELLE  
LYCRA SHIRT  
0,5



K 66 | NIK BAKER

### COMMANDER★

**COMMANDER TECHNOLOGY** COMMANDER, the re-sponse to the highest demands on comfort and climate control. The extremely elastic SAS.DURASTRETCH 60/100 neoprene with a high carbon content makes all COMMANDER suits so stretchy that you might forget that you're wearing a suit at all. For the inner lining we use a specially coated high-tech neoprene with GLIDE.SKIN.LAMINATION that reflects the body heat like an emergency blanket, increasing heat retention. COMMANDER is the ultimate professional wetsuit with unreal freedom of movement.



COMMANDER  
SUPER SEMIDRY 5/4



COMMANDER  
SEMIDRY 4/3



COMMANDER  
STEAMER 3/2