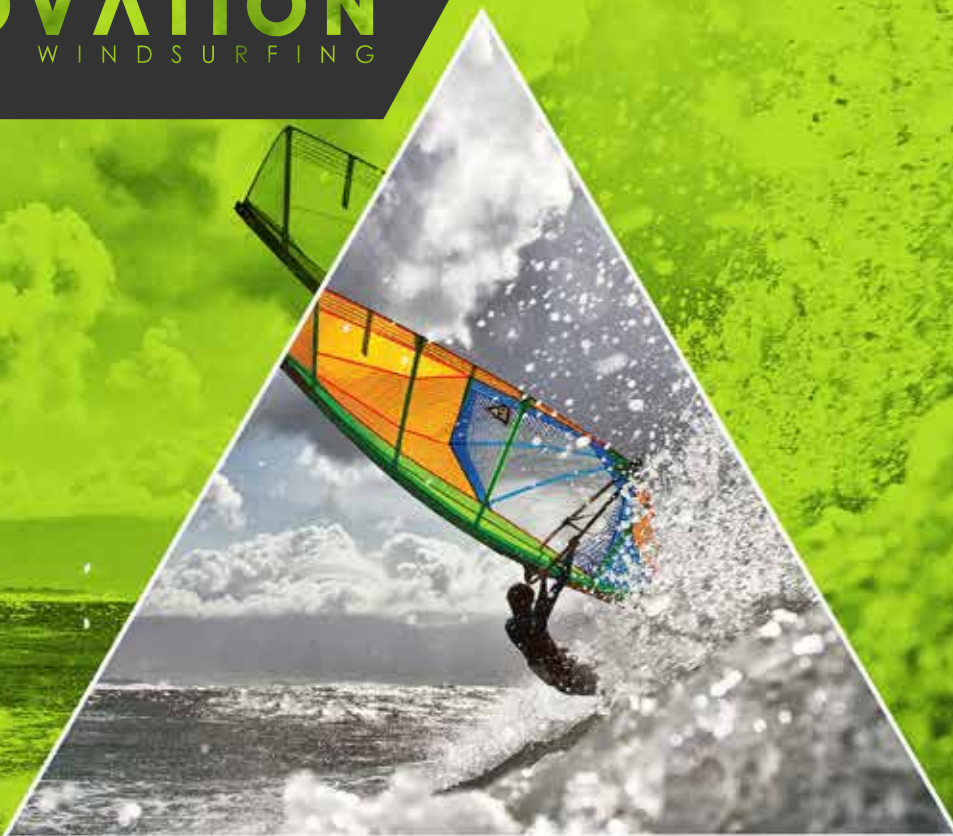


POWERED BY 
INNOVATION
G A A S T R A W I N D S U R F I N G



Gaastro®

SEASON
2015



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NO WORDS CAN EXPLAIN
THE GOOD TIMES...
PROGA
DESIGNER
PETER GA
MUNZLINGER



PETER MUNZLINGER



2014 started with a bang! With the change to the new, fresh GA Sails logo we immediately won the first two important events of the season - the Formula World Championships with Ross Williams and the IFCA Slalom World Championships with Ben Van Der Steen. There can't be a better start than that for a new logo on our Gaastra sails!!

Meanwhile, designing the sails for the 2015 season I've added a number of new features that significantly increase the electric feeling and performances of our sail lines. Again, I had to sit behind the computer and redesign most of the sails, but the result is fantastic. I've introduced 3 main innovations to the sails - a new outline with a positive or straight leech compared to the old negative leeches; a redefined batten position/configuration, and a new design at the head of the sail, which all bring a series of benefits to the behavior and performance of our new sails.!!

In addition to that, I looked in all the curves that make the sail and faired them out and smoothed all uneven spots, which I found make a subtle difference to the feeling of the sails. Naturally, all the features and characteristics that make GA Sails so outstanding remain, such as the quality of the detail, and all the large and small features we developed in years past. We also renewed our C-film, increasing its quality with the color now being crisper and transparent, making for the outstanding visuals of the new sails.!

If you get a chance to try out a new GA Sails, don't hesitate! We pour our heart and soul into these products and you will be sure to notice this every time you sail a GA Sails rig.!

For more information and updates please check our website at www.gaastra.com.!!

Much wind and lots of fun on the water!!

Peter Munzlinger
GA Sails Designer



GA SAILS IS PWA CONSTRUCTORS WORLD CHAMPION IN 2014

INTERVIEW WITH SAIL DESIGNER PETER MUNZLINGER

JH:

Hi Peter. We are 1st place in the 2015 PWA Sail constructors title, what a year!

PM:

Yes that was cool. It's the best year since I joined Gaastra and I am very proud of it. Of course it's the teamriders who did most of the work and deserve the prizes, but I am happy that I could help to make their job a little easier. The PWA constructors title was the cherry on the cake, but we started with a bang with the IFCA slalom world title won by Ben Van Der Steen, and continued with Thomas Traversa winning the Storm Chase, Ross Williams Formula world champion, Kiri Tode third at the freestyle PWA ranking, Thomas again world champion in the PWA waves and Ben again winning the last PWA slalom event, and also the great results of the rest of the team always in the top positions.

JH: Would be great to hear your history in sail designing for all the readers who don't know.

PM:

To avoid making it too long and boring just a synthesis: I moved to Lake Garda when I was 20 and started repairing sails for North Sails in their shop. That's how I learned. It didn't last long before I did my first sails and they were quite good straight away so I got a job at North Sails first doing some recreational sails, but later making also the highly successful Prisma. After North I did Da Kine sails for a year but that project didn't last long as they were more concentrated in the accessories and bag business, so I joined the project YES sails which was successful for quite some time. After that I was the designer at Point-7 until I got the proposal from Gaastra and here I am!

JH:

Tell me about your normal day as a sail designer for an industry leading sail brand. You must be busy!

PM:

Yes I have to design around a 100 sails every season, between all the sail lines and sizes. First thing in the morning I check the mails and do that kind of work. The most are between me and Alfred the manager of the factory in China about details, sample sails, pre production etc. After that if it is windy and I have to test some sails I organize for that, check where to go based on the wind direction and test (I live in Sardinia, which is an island, so there is always a good spot for any wind direction). Basically I test all the sails except the freestyle, wave and race sails, for which I work with our team. After that I write down all the findings and ideas and put the sails to dry for some re-cuts and modifications which I do the same day if possible or the day after. If it is not windy or if I have nothing to test I stay behind the computer and design sails, be it new designs from scratch or implementing modifications to the files of the sails we have already tested. Depending on the time of the year I also work closely with Axel, our graphic designer, on the new designs. Then 4 or 5 times a year I travel to China to put the different saillines in production and then there are the distributor meetings, eventual photoshootings and meetings with the teamriders for sail testing and once in a while I visit also some PWA events.

JH: What do you look for in your designs?

PM:

I like the rig (mast + sail) to do most of the work for you so that you can concentrate on the sailing without having to work too hard, that's my main philosophy. I try to achieve that with a high stability of the profile, and a working leech that naturally adapts to all the changes in the wind and a flexing rig that absorbs all the impact with the chop. Ideally your sail should never pull too hard in the gusts to force you to unsheet, but also have the performance to make you accelerate without losing too much momentum. I also like that my sails are durable, I try to make them as light as possible, but without compromising on the strength. That in general, of course each sailline has its own requirements. But I like it to be nice and not a fight with the elements and not need to come back because a panel ripped.

JH: All the team have been doing great in every discipline. How closely do you work with the team on the designs?

PM:

Yes, we have really a great team! I work quite closely with many of them and they always provide me with great feedback. It would not be possible to achieve the results we got without their precious input. They are my hands and eyes in the water. My job is to understand what they want and to figure out what I have to do to the sails to get the job done. In particular I want to thank Ben for the big help in the development of the Vapors and Ross who is always there for any question, he had some great ideas for the Formula sails and is doing an awesome job of coordination with all the team across all disciplines, and collecting all the information for me.

JH: We have a world champion this year! Thomas has been competing and winning in so many different conditions this year. Did he talk with you about any special sail designs for the storm chase, indoor and PWA tour, or were they all production sails?

PM:

This was definitely the year of Thomas! The wave world title was fully deserved and he showed that he can do it all in all the conditions, on both tacks, onshore, small waves, big waves, Europe, Hawaii and in the most radical storms witnessed. Actually I did a couple of super small sails for him for the Storm Chase but I think he didn't use them as he was OK with his production sails. We met 2 times at the beginning of this year once in Sardinia and once in Tenerife where he tested some protos and the new IQ that came out of those tests is really a great sail which suits him particularly well. At the indoor he just used production sails. So at the end, yes, he only used production sails.

JH: 2015 looks to be a big year. What do you have in planned?

PM:

I think it is still a little early to talk about the 2016 gear. As always I try to improve all the sails in all aspects from the performance to construction to every detail. I am working hard on them right now and I hope we will get better and better step by step each year as we have done so far.

JH: Thanks and good luck for the new season!

PM:

Thank you, and good wind and waves to you and to all the readers!



KEY TECH

TYPICAL QUALITY STANDARDS

1.



Improved layout for a perfect and locked-in sail shape, providing a smooth profile, twist control and durability. The 3rd Generation provides a full Radial Panel Layout from all 3 corners of the sail, the seams are aligned with the forces that originate from the tack, clew and head to avoid deformations of the shape and design of the sail. The new RADIAL LOAD TAPE brings even more heavy duty into the sails.

2.



This heavy duty reinforcement area around the windows on the wave sails gives solid durability these critical areas.

5.



- 5 times better UV durability (compared to standard clear monofilm)
- Constant long term profile and shape due to better durability
- Better visibility of the sails on the water
- Brilliant colors and style NEW: More brilliant and crisper colors, more transparent and clear

3.

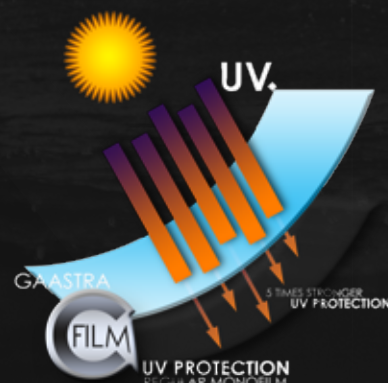
TACK FAIRING

A redesign that makes the fold flow much easier. It is clean and just how it needs to be. Perfection!

4.

2MAST CONCEPT

on MANIC, MANIC HD, IQ and CROSS.
Use all sizes on 2 masts only!



INOLOGIE

6.



We are always looking for more power and better handling ... and the redesigned luff curves combined with the shaping points in the sails give us that unbelievable feeling! The sails have more power and don't get heavy in the hands.

We released some tension from the head to redesign the twist character, making it easier to open in the gusts while the lower leech remains relatively open. Pushing the shape more forward towards the luff was our main goal. Generally the luff curve becomes more round in the bottom and straighter in the top, to push more material in the sail near the mast and in the lower half to enable more twist up top. The amount of curve changes from sail to sail, but the overall concept remains the same. We extended the use of the DACRON LUFF PANEL to more sails in our range, taking advantage of its added smoothness and soft character.

9.



Comes in all Manic, Manic HD, IQ, Poison, Pure, Cross, Pilot and Matrix designs, allowing for a smoother/softer feel that gives the sail life!

7.



Comes on Manic, Manic HD, IQ, Poison, Cross. In addition to our radial panel layout, this reinforces the sail along the load lines whilst reducing the stretch of the material, allowing the sail to hold its shape longer when you get hit by stronger winds.

No longer on Matrix and Cocmic

8.

COMPLETE REDISIGNED

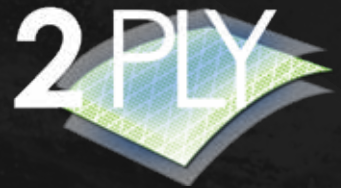
All of these sails have come from a blank canvas. We were able to reinvent greatness in a smoother more simplistic form.

10.

REVISITED SEAM SHAPING

With the new luff curves, we were able to adjust the seam shaping with fuller lines that are more forward in the sail. The back section is flatter which allows better twist and a lighter feel to the rig.

11.



In order to be able to reduce the weight of the sails we developed a completely new range of laminate materials, with a much thinner film supported by a double structure of fibers - a balanced scrim of fibers orientated in the warp that fit within a classic X-Ply angled series of fibers. From its structure the name 2-Ply arose. We have created a complex woven web with the highest durability that is also very lightweight. Besides the proven X-Ply, we use this laminate in the upper sail body to achieve minimal swing weight and protection of critical areas.

- Less weight: use of new 2-PLY laminate reduces the weight in the top area of the sail by more than 10%
- Softer handling for better performance and comfort in gusts
- Better strain value for perfect profile and shape in the long term
- Better UV resistance due to a thinner film
- Used in crucial sail areas for best response, maneuverability and minimal swing weight

TYPICAL QUALITY STANDARDS

12.

WIDER WIND RANGE

Now the sails can be more finely tuned than last year's. We have accomplished this by more shape down low and plenty of range to be able to pull more downhaul without losing the power. The 2015 range adapts to just about any condition you can throw at it.

13.



The thin film laminate of the K105 gives a dynamic flex with a quicker response time to the top half of the mast sleeve. The special material not only saves weight but makes accelerating more instant so you can fly through chop and coast through lulls. The mast sleeve works in synergy with the specified mast absorbing shock and releasing power immediately. This keeps you and your sail full of energy!

17.

CLEW AREA

Our refined clew patch provides the ultimate in strength and durability. It also protects the stitching with the new styling features.

14.



We freshened up the look of our sails with new colors and details that catch everyone's eyes.

15.

VARIO PROTEC

This little add-on for the top cap on the Vario Tops protects the adjustable webbing from breaking down from wear and tear on rough ground.!

16.

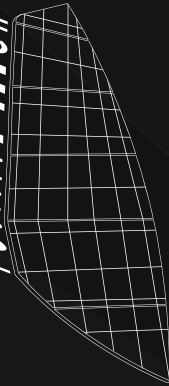


We added an X-ply panel at the back of the window and at the clew of the wave sails to improve protection in this area from crushing. For the same reason, the very top panel of the wave sails is now completely X-ply.

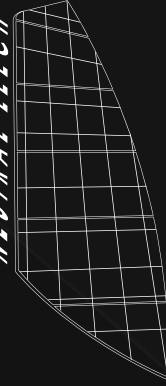
18.



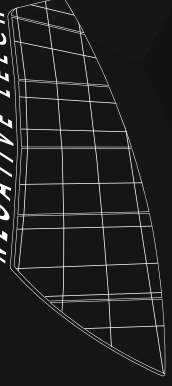
POSITIVE LEECH



NEUTRAL LEECH



NEGATIVE LEECH



#1. NEW OUTLINES

Determine characteristics and performances in the sails:

POSI LEECH leech outline is positive at first batten above the boom which means it sticks out a little from the line connecting the clew or cross batten with the top batten. STRAIGHT LEECH on the PURE: we opted for a straight leech from clew to top batten to keep the sail more compact for all the clew-first moves. LEECH OUTLINE for the new Vapor is not yet determined at the moment as it is still under development, but at the moment we are working with a POSI LEECH.

#2. COMPACT BATTEN POSITIONING

Brings the battens closer together and lower in the sail, providing better control as it lowers the center of effort, making the sail more stable and feeling lighter in the hands, increasing the range of use.

#3. STABILIZED HEAD CONFIGURATION

Positioning of first batten and shaping of head area for better stability of this critical area. As we generally adopted a looser leech in the head this year, to increase the stability of this area we brought the top outline down and put more sail area into the first batten.!



WATER REPELLENT sleeve material**BATTEN GUARD****MINI BATTENS** highly durable G10**SEAM GUARD****STRAP ON****FOOT GUARD****BATTEN TENSIONER** integrated**3D HEAD PROTECTION**

SPECS PRINT



DOUBLE SEAM



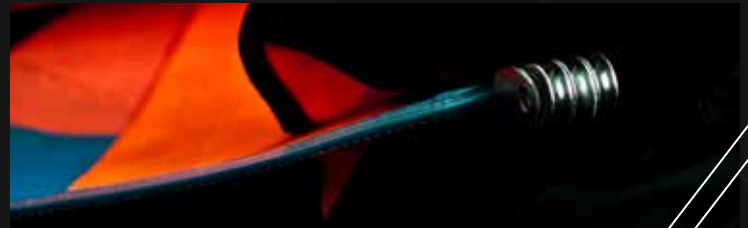
RADIAL LOAD TAPE AND SEAM



MAST SLEEVE OPENING



ROLLER TACK PULLEY stainless steel #316



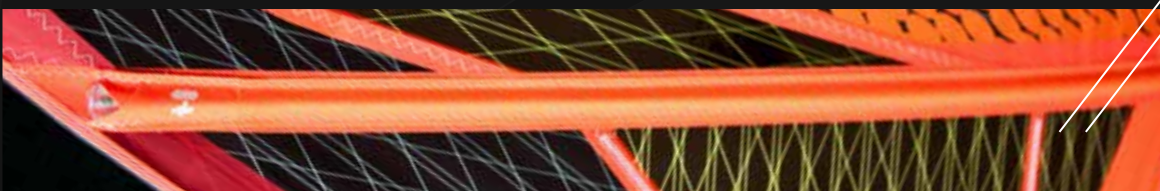
STAINLESS STEEL CLEW with reinforced layers



MAST PLUG pivot-mounted



HIGH QUALITY BATTENS

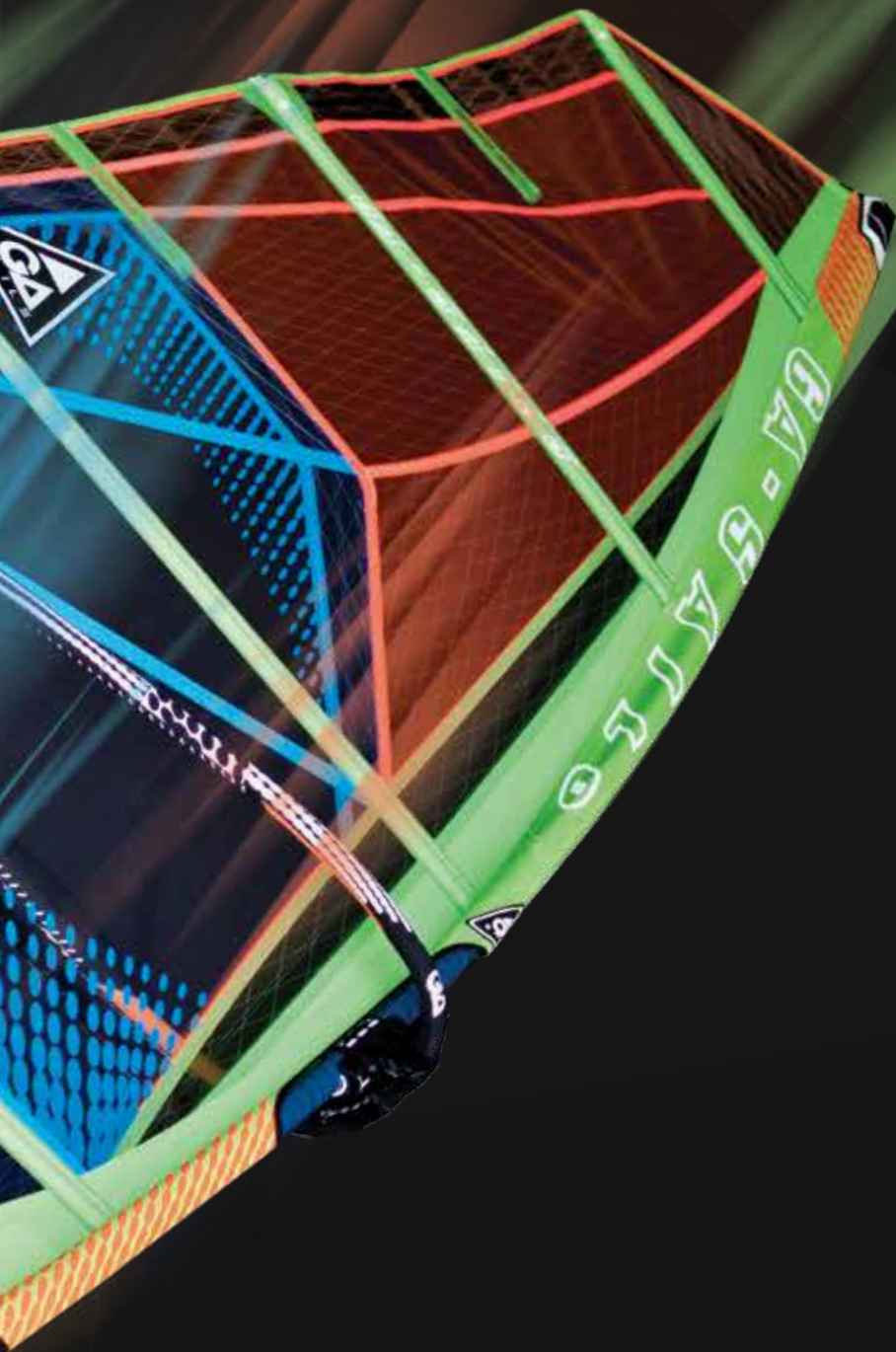


SEASON
2015

SAL



ILS



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SEASON

2015

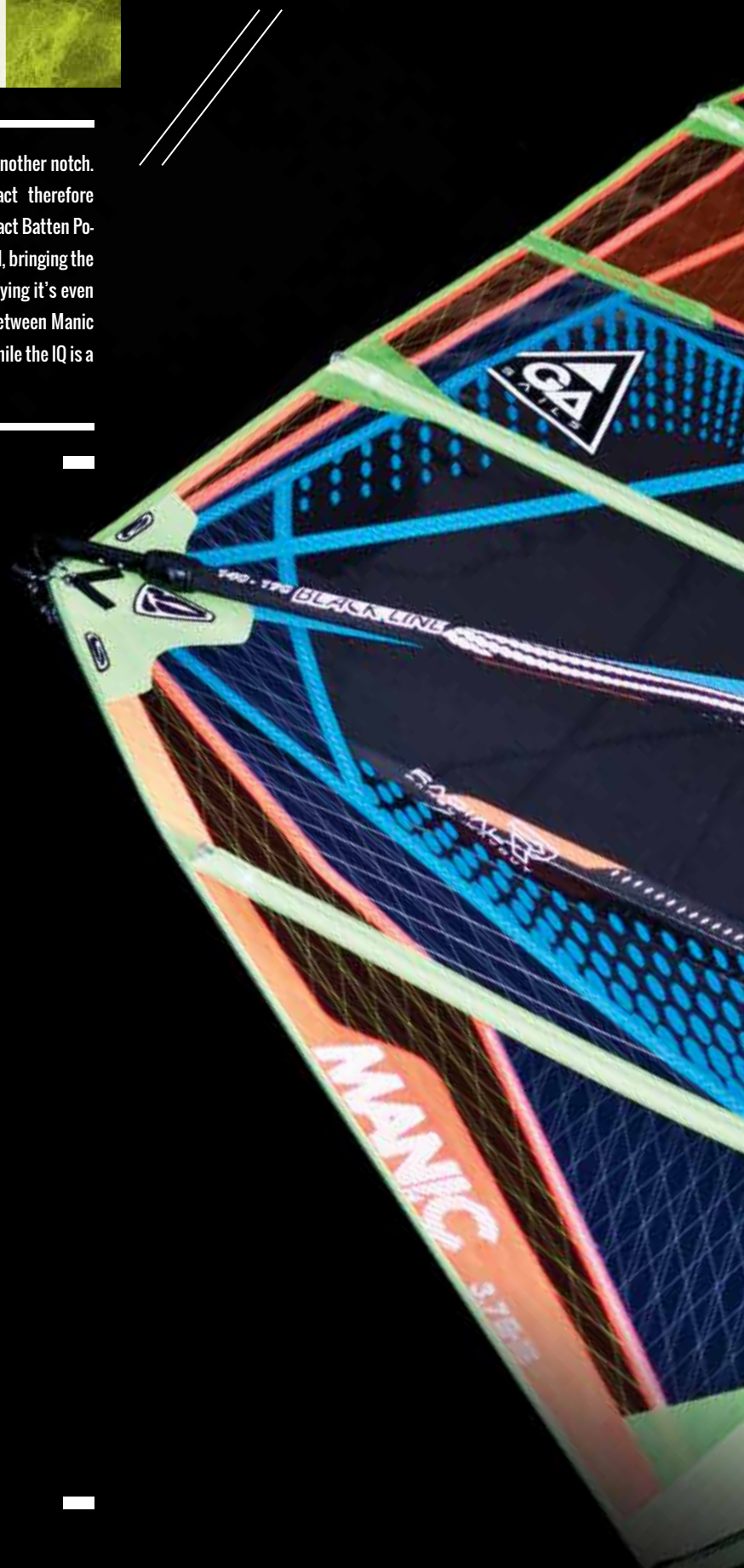


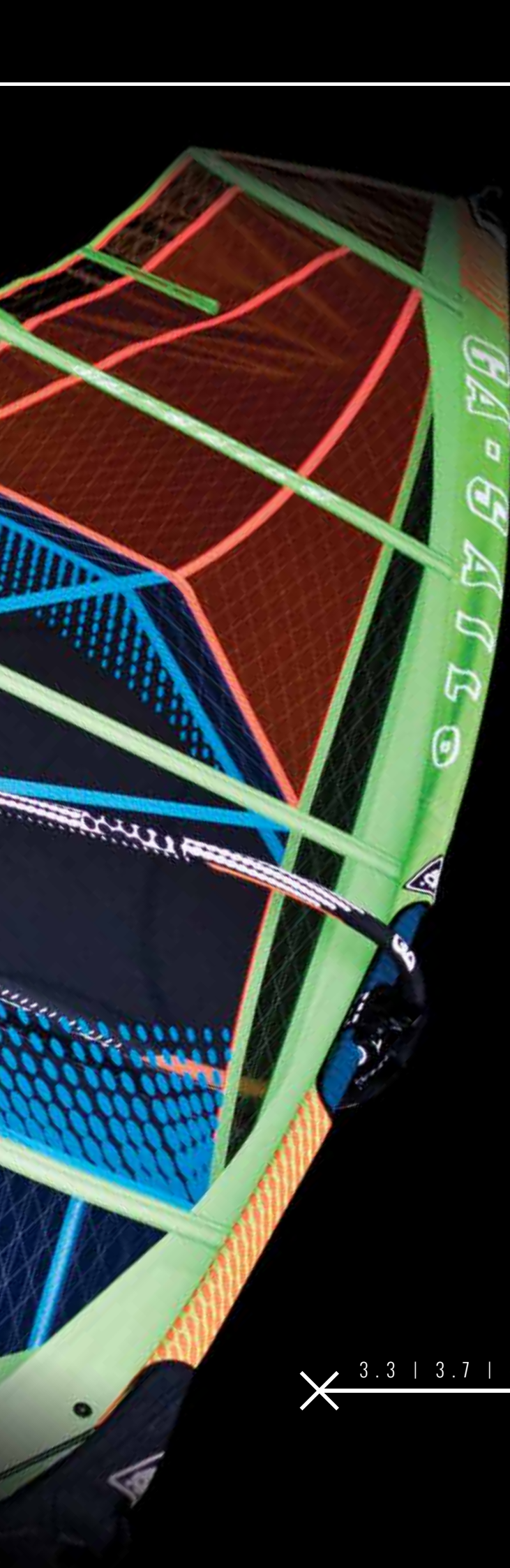
MANIC

For the 2015 Manic, we stepped the legendary character of this sail up another notch. We updated the outline, shortening the luff and making it more compact therefore even more maneuverable. The new design concepts of Posi Leech, Compact Batten Positioning and Stabilized Head Configuration improve the drive of the sail, bringing the center of gravity down. Alex Mussolini is enthusiastic about the new Manic, saying it's even more stable, but at the same time so easy to maneuver. To make the choice between Manic and IQ, the Manic is the perfect overall sail for all conditions and strong wind, while the IQ is a little more light-wind oriented.

FACTS

- Shorter luff
- Posi Leech
- Compact Batten Positioning
- Stabilized Head Configuration
- Revised Panel Layout with less seams and better protected head and clew areas
- Use of 2-Ply in upper body for reduced weight, lower swing weight and better response
- DACRON LUFF PANEL for softer, smoother feeling and maximum neutrality
- More low end performance
- Radial Panel Layout 3G: improved layout for perfect locked in sail shape, smooth profile, twist control and durability
- 3D EVA mast protector. New design, more user friendly, much easier to handle for maximum shock-absorbing and minimal weight
- 3D mast head protector for maximum shock-absorbing and minimal weight
- Vario Top protector - this little feature protects the exposed adjustment webbing from wear and tear
- 2 mast concept. Revised outline parameters on key sizes
- More torque provides more power for multi-fin boards
- Low clew position for better control in bottom turns and better leach twist
- Soft, elastic and alive character for fast response and improved handling





R&D DETAILS

New outline with Posi Leech: we made the luff shorter and kept the boom the same in general. Compact Batten Positioning brings the battens (and the center of gravity) of the sail further down. The Stabilized Head Configuration and revised panel layout with less seams results in a reinforced head and clew area, whilst the very top of the sail is made completely in X-ply, which combined with an X-ply panel between clew and Monofilm window make for additional protection. Adjusted luff curve details for a smoother curve. The 4.2m now has 4 battens. The top half of the sail is in our lightweight and elastic 2-Ply material. We kept the Dacron luff panel as in our opinion it is the best material when aiming for a smooth and soft behavior and great neutrality. The 2-mast concept allows all sizes to be rigged on 2 masts only.

BOTTOM LINE

The Manic is a great sail for all conditions and all windsurfers. When it comes to performance in big or small waves, it is in a class of its own: a radical wave sail with neutral handling no matter what happens.

ALEX MUSSOLINI

"This is my second year back on our 5 batten sail and I think my results have shown why the Manic is so unbelievably good for contest conditions. I need to have power and control to compete and win at the highest level. The Manic has everything - it's light and maneuverable and continues to push my level higher and higher."

Lightweight & strong all round wave sail

Stable, smooth & balanced

Great range of use with power & perfect handling

3.3 | 3.7 | 4.0 | 4.2 | 4.5 | 4.7 | 5.0 | 5.3 | 5.7

MANIC HD





Lightweight & strong all round wave sail

Stable, smooth & balanced

Great range of use with power & perfect handling



3.3 | 3.7 | 4.0 | 4.2 | 4.5 | 4.7 | 5.0 | 5.3 | 5.7

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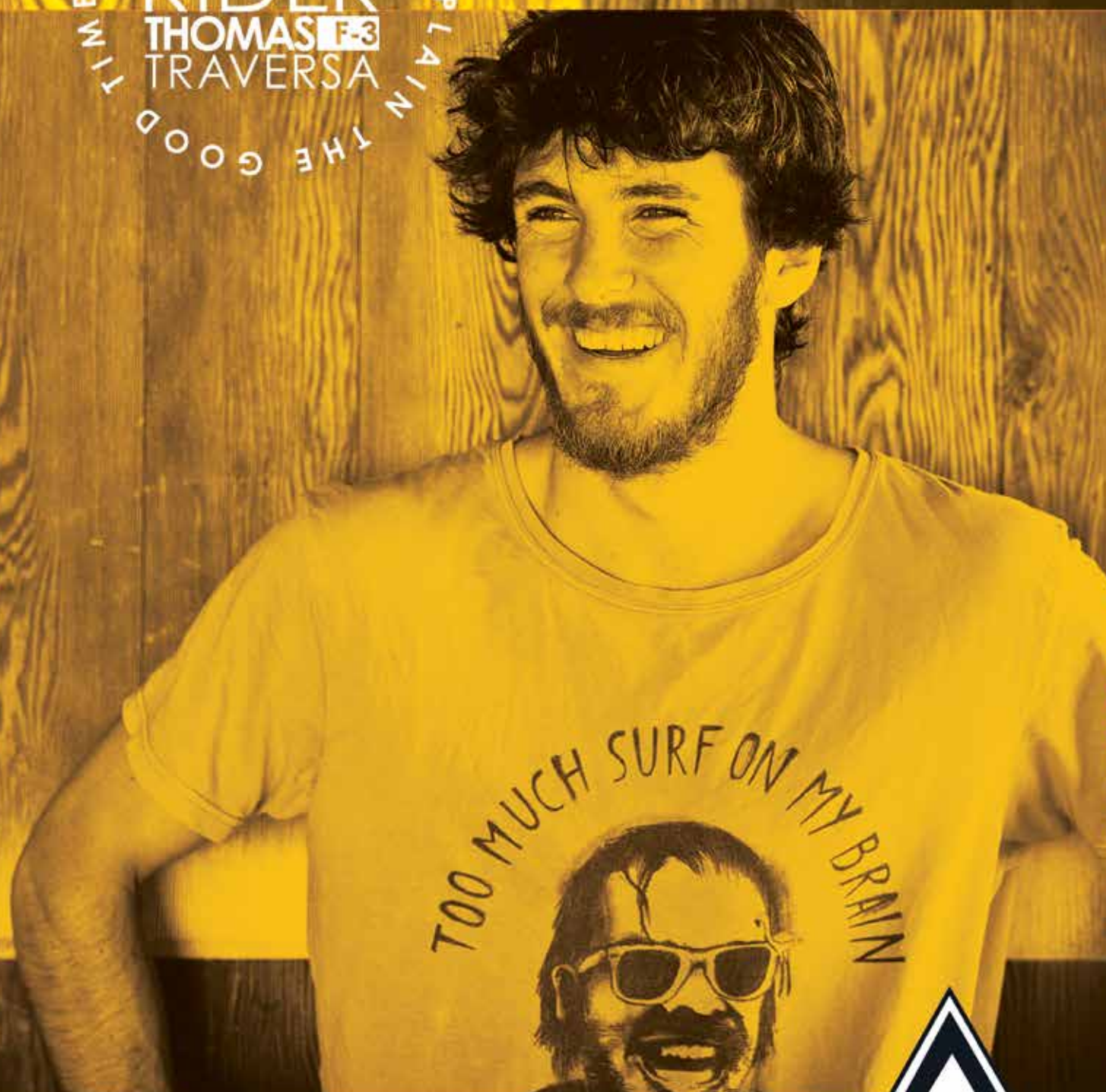


G A A S T R A W I N D S U R F I N G



NO WORDS CAN EXPLAIN
THE GOOD TIMES...
PRO GA
RIDER
THOMAS F-3
TRAVERSA

GAASTRA.COM



POWERED

IQ

The new IQ makes a great step forward with the new features. Everybody who tried it was enthusiastic and said that of the wave sails this was the one that improved the most from last year. It is light, reactive and powerful when you need it. That is what the new design features bring - the Posi Leech combined with the Compact Batten Positioning make the sail feel lighter, but at the same time increase the drive. The ideal conditions for the IQ are more light-wind oriented than the Manic, so if the spot you sail the most doesn't boast radical overpowered conditions the IQ is the ideal choice for the progression of all the latest new-school moves!

FACTS

- Shorter boom
- Posi Leech
- Compact Batten Positioning
- Stabilized Head Configuration
- Revised Panel Layout with less seams and better protected head and clew areas
- New luff curve
- New seam shaping
- Use of 2-Ply in upper body for reduced weight, lower swing weight and better response
- DACRON LUFF PANEL for softer, smoother feeling and maximum neutrality
- Radial Panel Layout 3G: improved layout for perfect locked in sail shape, smooth profile, twist control and durability
- 3D EVA mast protector: new design, more user friendly and much easier to handle for maximum shock-absorbing and minimal weight
- 3D mast head protector for maximum shock-absorbing and minimal weight
- Vario Top protector - this little feature protects the exposed adjusting webbing from wear and tear
- 2 mast concept. Revised outline parameters on key sizes with a more compact outline and shorter luff for better control and maneuverability
- Instant response character - provides an ultimate ON / OFF control
- Optimized view windows for improved visibility
- Low aspect outline gives the IQ the most aggressive wave & freestyle performance
- Four battens skeleton on all sizes - reduces weight and provides powerful but forgiving character
- DOUBLE SEAM for heavy duty reinforcements



R&D DETAILS

New outline with Posi Leech: we kept the luff length similar and made the boom shorter in general. The Compact Batten Positioning brings the battens and so the sail's center of effort down. Stabilized Head Configuration and revised panel layout with less seams: we reinforced the head and clew area further, with the very top of the sail made completely in X-ply and an X-ply panel between clew and Monofilm window for added protection. We introduced a new improved luff curve and modified the shape in the seams, making the sail flatter and more open at the second batten. We also improved the trim range.!! The top half of sail is in our lightweight and elastic 2-Ply material. We kept the Dacron luff panel as in our opinion it is the best material when looking for a smooth and soft behavior, coupled with great neutrality. The 2-mast concept allows all sizes to be rigged on 2-masts only.

BOTTOM LINE

If you are planning a revolution, trust in the IQ. It will not let you down!!

THOMAS TRAVERSA

"The 2015 IQ has really progressed forward. It's got tones of drive for those lightwind big wave riding days, yet in contrast it's totally compact for radical moves in marginal and sloppy conditions. I am so happy with this sail whatever the conditions."

Lightweight and strong new school wave sail

Compact & radical 4 batten sail

Great range of use with perfect handling

X 3.3 | 3.6 | 4.0 | 4.2 | 4.5 | 4.7 | 5.0 | 5.4

POISON

The new Poison makes use of the new design features as well. While we didn't change the luff and boom lengths significantly, we designed a Posi Leech into the sails and also a Compact Batten Positioning, bringing the battens further down, which helped us to improve the great characteristics of this sail. Whilst it's a superior wave sail in onshore conditions and also in the hands of heavier sailors (when the most important word is power), we were also able to improve its already great wave-riding attributes in more demanding side-shore conditions.

FACTS

- New outline
- Posi Leech
- Compact Batten Positioning
- Stabilized Head Configuration
- Revised Panel Layout with less seams and better protected head and clew areas
- Use of 2-Ply in upper body for reduced weight, lower swing weight and better response
- DACRON LUFF PANEL for softer, smoother feeling and maximum neutrality
- More low end performance
- Radial Panel Layout 3G: improved layout for perfect locked in sail shape, smooth profile, twist control and durability
- 3D EVA mast protector. New design, more user friendly and much easier to handle for maximum shock-absorbing and minimal weight!
- 3D mast head protector for maximum shock-absorbing and minimal weight
- Vario Top protector. This little feature protects the exposed adjusting webbing from wear and tear
- 2 mast concept. Revised outline parameters on key sizes results in a more compact outline and shorter luff on big sizes for better control and maneuverability
- A 'Real World' wave sail
- Five batten skeleton
- Higher clew position means the Poison delivers more direct power
- DOUBLE SEAM provides heavy duty reinforcements
- Outstanding in onshore conditions and bump & jump





R&D DETAILS

New outline with Posi Leech: we kept the luff and the boom lengths the same in general. Compact Batten Positioning brings the battens and so the center of gravity of the sail down. Stabilized Head Configuration and revised panel layout with less seams: we brought the profile a little further back into the sail and reinforced the head and clew area, making the very top of the sail completely in X-ply. As with the Manic and IQ there is also an X-ply panel between clew and Monofilm window for added protection. The adjusted luff curve makes for a smoother curve, whilst the top half of sail is in our lightweight and elastic 2-Ply material. We kept the Dacron luff panel as, in our opinion, it is the best material when looking for smooth and soft behavior, plus great neutrality. The 2-mast concept allows all sizes to be rigged on 2 masts only.

BOTTOM LINE

Whether you are in wavy or flat water conditions, the Poison is an excellent choice. Anyone who likes a direct sail with useable power through the backhand is in the right place with the Poison. Just sheet in and gusty winds or strong currents are no longer an issue.

ROSS WILLIAMS

"The Poison is a classic power wave sail. Plenty of power and low-end acceleration, it really helps to get you up and going in those difficult conditions when you need a direct response. Sailing on the Poison, you know you will not be let down."

Lightweight and strong power wave sail

Powerful, stable and balanced

Formidable combination of power and neutrality



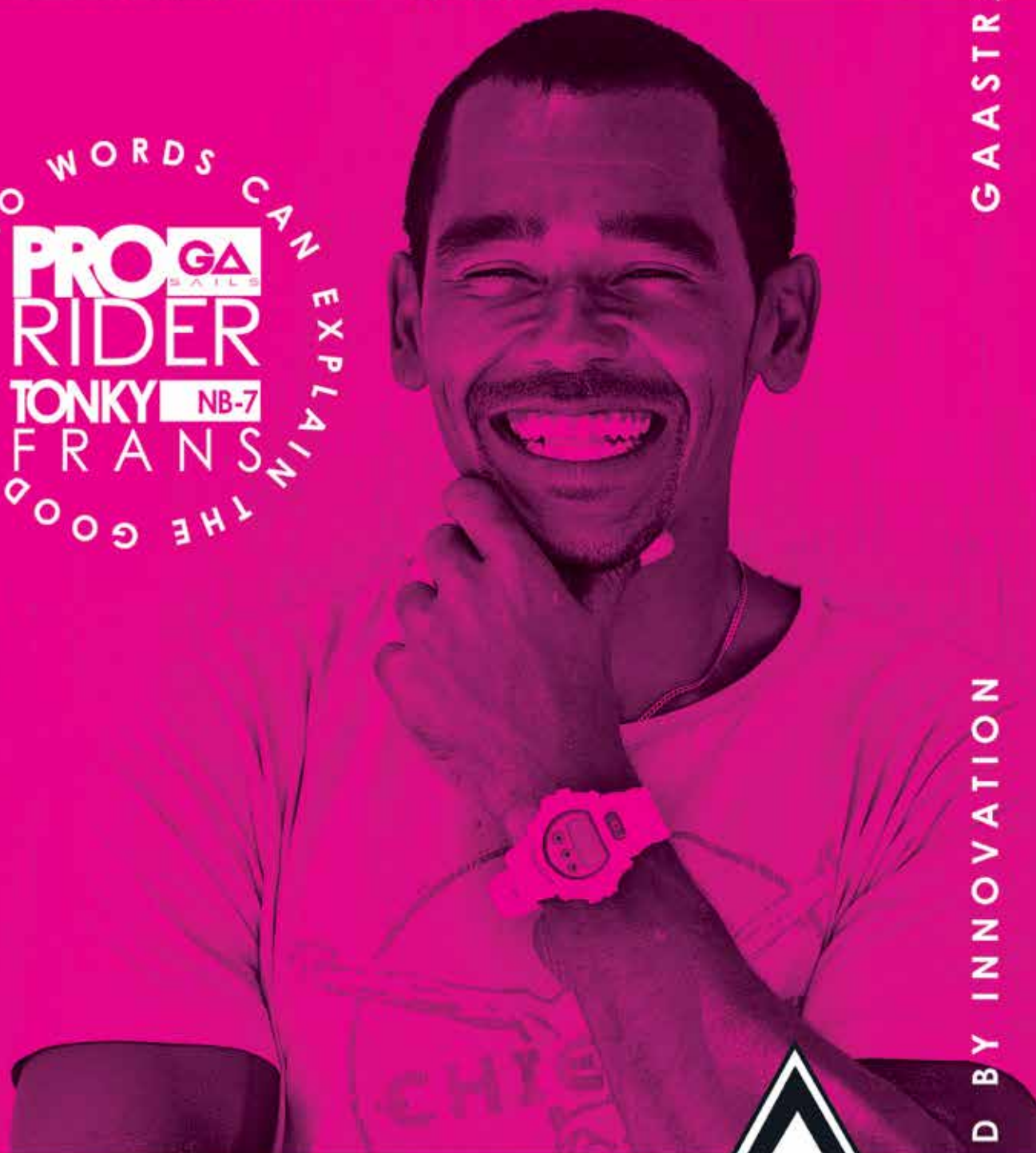
4.0 | 4.2 | 4.5 | 4.7 | 5.0 | 5.4 | 5.8 | 6.2

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G A A S T R A W I N D S U R F I N G



NO WORDS CAN EXPLAIN
THE GOOD TIMES...
PRO GA SAILS
RIDER
TONKY NB-7
FRANS



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PURE

We incorporated a straight leech into the 2015 PURE as it makes it more stable in the clew-first position, used regularly in freestyle trickery. In combination with the Compact Batten Positioning and the Stabilized Head we found we could improve the sail's response and pop. We also flattened the foot batten for better neutrality and easier ducking. We also added two seams in the top half of the sail and stiffer battens to improve stability in overpowered conditions. Revised sizes: we added a 3.8m to the line-up and removed the 4.0m and 4.6m. A world title winning sail, the PURE continues to be a reference for real freestyle sailors. If you take freestyle seriously you cannot live without the PURE.

FACTS

- Straight leech
- Compact Batten Positioning
- Stabilized Head Configuration
- Revised Panel Layout with less seams and better protected clew area.
- Vertical radial seams in upper half for more stability
- Adjusted luff curve details for a smoother curve
- New seam shaping, flatter foot batten
- Revised sizing, fewer sizes available but each one is more efficient
- DACRON LUFF PANEL for softer, smoother feeling and maximum neutrality
- Radial Panel Layout 3G: improved layout for perfect locked-in sail shape, smooth profile, twist control and durability
- 3D EVA mast protector. New design, more user friendly, much easier to handle for maximum shock-absorbing and minimal weight
- 3D mast head protector for maximum shock-absorbing and minimal weight
- Ultimate lightweight construction provides lightweight performance with durability
- High clew design and a higher aspect ratio makes this sail easy to maneuver in all conditions.



R&D DETAILS

New outline with a straight leech: we kept the luff and boom lengths similar. Compact Batten Positioning brings the battens (and so the center of effort of the sail) down. Stabilized Head Configuration and revised panel layout with less seams, yet we added 2 seams in the top half of the sail (and incorporated stiffer battens) for better profile stability. Improved reinforcement to the clew area with an X-ply panel between clew and Monofilm window for added protection. We refined the luff curve and modified the shape in the seams, making the sail's profile shallower at the foot batten. And with revised sizing, the few sails on offer have more efficient wind ranges. The PURE retains the Dacron Luff panel as it is the best option for smooth feedback and neutrality.

BOTTOM LINE

One of the easiest sails to ride. Works great for all levels up to the top pros. It does what you tell it to!!

KIRI THORDE

"I am 100% sure that we have the best freestyle sail on the market. The other brands are always looking to the PURE for inspiration. Each year we are pushing the design forward: this must be the reason so many other top riders are dying to jump to the PURE."

Best freestyle sail on the market

4 battens on all sizes

Light, direct with a lot of pop



3.8 | 4.2 | 4.4 | 4.8 | 5.0 | 5.2 | 5.4 | 5.7

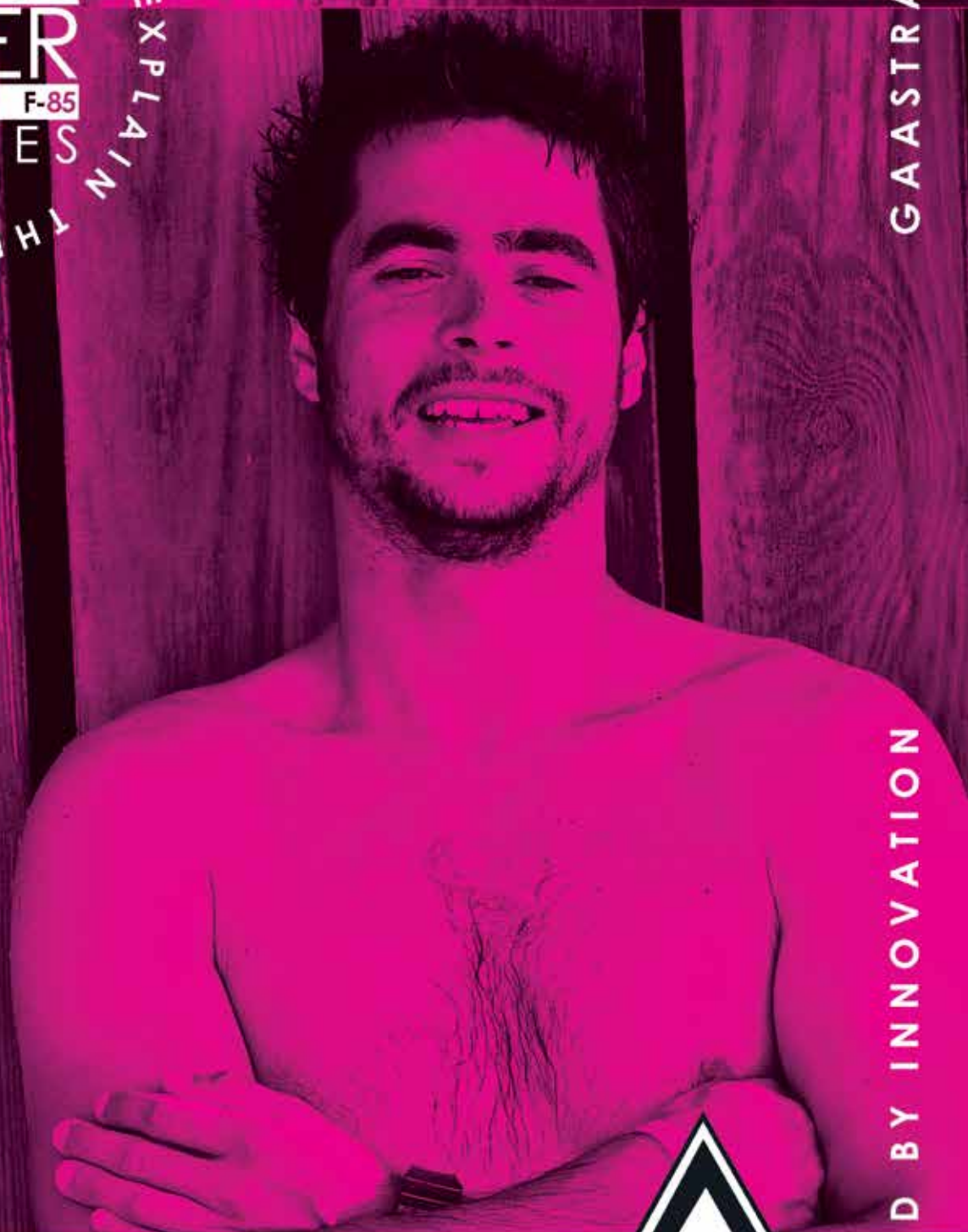
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G A A S T R A W I N D S U R F I N G



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THE GOOD TIMES...
PRO GA SAILS
RIDER
ANTONY F-85
RUANES



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GA ASTR A WINDSURFING



NO WORDS CAN EXPLAIN
THE GOOD TIMES...

PRO **GA** SAILS

RIDER

CEDRIC FRA-91
BORDES

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CROSS

For 2015 we have designed the Cross with 5 battens in all sizes and with a shorter boom. This was made possible by the new Posi Leech design and the Compact Batten Positioning. We have also moved the shape a little further back in the sail and increased its depth to generate more power. The new Cross also has a looser leech in the head to increase its range and light handling. The result is an even lighter and easier bump & jump sail, with more power and range. In addition, it is possible to rig all sizes on a 430cm mast and a 160-210 boom! Its skeleton is combined with normal and tube battens, giving an incredible amount of control in the gusts and at higher speeds, making it the perfect bump & jump sail with tons of speed and turnability.

FACTS

- Shorter boom
- Posi Leech
- Compact Batten Positioning
- Stabilized Head Configuration
- Revised Panel Layout with less seams and better protected head and clew areas
- Adjusted luff curve allows for a smoother curve
- More loose leech at the top
- New seam shaping, more shape in the foot and front
- All sizes incorporate 5 battens and are possible to rig on 430 mast and 160-210 boom
- Use of 2-Ply in upper/front panel for reduced weight, lower swing weight and better response
- DACRON LUFF PANEL for softer, smoother feeling and maximum neutrality
- Radial Panel Layout 3G: improved layout for perfect locked in sail shape, smooth profile, twist control and durability
- 3D EVA mast protector. New design, more user friendly, much easier to handle for maximum shock-absorbing and minimal weight
- 3D mast head protector for maximum shock-absorbing and minimal weight
- Vario Top protector. This little feature protects the exposed adjustment webbing from wear and tear.





R&D DETAILS

New outline with Posi Leech: we kept the luff length similar and made the boom shorter in general. Compact Batten Positioning brings the battens and the 'sweet-spot' of the sail

down. Stabilized Head Configuration and revised panel layout with less seams: we improved the reinforcement in the head and clew area with the very top of the sail completely in X-ply and an X-ply panel between clew and Monofilm window for added protection. We adjusted the luff curve and modified the shape in the seams, making the sail fuller in profile, yet the leech looser in the top. All sizes have five battens and can be rigged on a 430cm mast and a 160-210cm boom. For the materials we used a combination of X-Ply in the bottom and second luff panel for durability and stability. In the center top panel we incorporated 2-Ply for lightweight and a smoother transition to the leech, which itself is C-Film to create a more direct feeling.

BOTTOM LINE

Extremely versatile for any board or any condition. The Cross is fast, fun and friendly.

ALEX MUSSOLINI

"The Cross handles like a wave sail - super light and free. When I sheet in I am flying across the water full speed in seconds. It's scary fast, but I like that. It's a great fun sail that is easy and responsive."

Light and powerful crossover sail

Fast and stable

Great range of use

4.8 | 5.2 | 5.6 | 6.0 | 6.4 | 6.9



PILOT

The 2015 Pilot has all the high grade finish features you expect from a GA Sails product. Anyone from an absolute beginner and beyond will enjoy its effectiveness. This lightweight user friendly rig allows its rider to progress and improves his or her skill effortlessly. A mast tolerant luff curve allows you to use a variety of masts with different bend characteristics. Super light, great for waterstarts and sail handling skills. An ideal ride for beginners getting the basic windsurfing moves dialed.

Keeping the outline as simple as possible, we improved the batten configuration to compact their positioning, incorporating the Stabilized Head design. These new features, along with a revised panel layout (with less panels and also a repositioned luff panel), make our entry level sail even better in all aspects of sailing. From an absolute beginner to more performance-oriented sailors, the Pilot is a great sail that allows its user to progress and improve their skills.

FACTS

- Straight leech and re-worked twist
- Compact Batten Positioning
- Stabilized Head Configuration
- Revised Panel Layout with less seams and better protected clew area
- Use of NEW C-Film for better durability and performance
- Use of Dacron in the luff panel for softer, smoother feeling and maximum neutrality
- Radial Panel Layout 3G: improved layout for perfect locked in sail shape, smooth profile, twist control and durability
- 3D EVA mast protector. New design, more user friendly, much easier to handle for maximum shock-absorbing and minimal weight
- 3D mast head protector for maximum shock-absorbing and minimal weight
- Vario Top protector. This little feature protects the exposed adjusting webbing from wear and tear
- Revised window for higher durability
- Tolerant luff curve gives the Pilot a forgiving character
- Wide mast compatibility works great with various masts





R&D DETAILS

First, we are using the “straight leech” design to keep the rig’s outline as simple as possible. Improved Compact Batten Positioning and a Stabilized Head configuration adds more comfort and control. The revised panel layout creates less seams, whilst we also reinforced the clew area for added protection. Bigger sizes have five battens; 4.5m and 5.0m have 4 battens, and all can be rigged on a 430 mast. We continue to use colored C-Film which offers greater visibility and recognition on the water with a much longer life due the high UV resistance. The Dacron luff panel provides the best solution for a neutral behavior.

BOTTOM LINE

Learning to windsurf has never been easier than with the Pilot. The design characteristics make it feel light in the hands and allow you to think about your moves. The Radial Panel Layout 3G makes it super robust and efficient.!

THOMAS TRAVERSA

“It’s very simple, very comfortable, looks great and is light for beginners to handle.”!

Simple to rig and use

Great performance

All top level features of GA Sails



4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5

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NO WORDS CAN EXPLAIN
THE GOOD TIMES

PRO GA
SAILS

RIDER
ROSS GBR-83
WILLIAMS



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MATRIX

The Matrix is our freeride favorite! Each size is equipped with 6 battens and no cams, combining a light gentle rotation with a strong secure skeleton, which will provide forgiveness for the novice rider and exhilaration for the expert. We increased the shape in the front panels, and pushed the center of effort a little higher up and back in the sail to increase the performances in lighter winds. In addition we increased the looseness in the leech at the top of the sail to increase the range. A 6 batten skeleton, with 3 tube battens, makes it stable and powerful, with a wide useable wind range. With so many fine attributes the Matrix finishes top of her class. Simple plug and play rigging, stable and light handling and a high level of performance rolled into one great sail.

FACTS

- Posi Leech
- Compact Batten Positioning
- Stabilized Head Configuration
- Smaller head area
- Revised panel layout with less seams
- Adjusted luff curve details for a smoother curve
- More loose leech at the top
- New seam shaping: more shape in the front panels
- Front seams positioned further back in the sail
- Use of the NEW C-Film for better durability and performance
- Use of Dacron in the luff panel for softer, smoother feeling and maximum neutrality
- Radial Panel Layout 3G: improved layout for perfect locked in sail shape, smooth profile, twist control and durability
- 3D EVA mast protector. New design, more user friendly, much easier to handle for maximum shock-absorbing and minimal weight
- 3D mast head protector for maximum shock-absorbing and minimal weight
- Vario Top protector. This little feature protects the exposed adjustment webbing from wear and tear
- Equipped with 6 battens
- No camber inducers
- Dropped clew, shorter boom, improved lower twist
- Fifth batten crosses the boom area for more power and performance





R&D DETAILS

For 2015 we made the new design with a "Posi Leech", which allowed us to make a smaller head area for increased handling. The Compact Batten Positioning and revised panel layout, with less seams, makes the sail lighter in the hands and provides greater control and balance. We adjusted the luff curve and modified the shape in the seams, making the sail fuller, and moved the shape slightly further back in the sail, resulting in a more open leech and greater top end speed. We use a Dacron luff panel, which has increased the smoothness of the sail's power delivery. Our trademark features such as CFilm in the 2015 version is brighter and more transparent with these new flashy colors. Radial panel layout and a newly designed tack fairing round off the fantastic appearance of this range.

BOTTOM LINE

This no cam rig can race like a slalom sail, turn like a wave sail and put a smile on anyone's face! Easy to rig and tune, this is the ultimate freeride machine.

ROSS WILLIAMS

"There can be no doubt, the Matrix is truly the master of versatility. When I am helping out at test events these sails are in use whatever the weather, all day, everyday!"

Easy to rig and tune

Versatile

Tonnes of fun

5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.5

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NO WORDS CAN EXPLAIN THE GOOD TIMES...
PRO GA SAILS
RIDER
CEDRIC FRA-91
BORDES

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COSMIC

The Cosmic is our 2 cam freeride sail, the relatively wide sleeve with zippers making it super easy to rig. There are a number of easy solutions to rig and pop the cams onto the mast. This really is a great stepping stone into the cambered sail / freerace department. 6 battens and 2 small cams, it is powerful yet stable, easy to rotate, and offers a high level of speed for those freeriders wishing to experience a tune-up from a standard no-cam sail. For 2015 we have produced a new design with a "Posi Leech," giving it a fresh up-to-date outline. The Compact Batten Positioning along with the Stabilized Head makes the sail lighter in the hands and more balanced. Again, the Cosmic continues to blast across the water quicker and more efficient than ever.

FACTS

- Posi Leech
- Compact Batten Positioning
- Stabilized Head Configuration
- Smaller head area
- Revised panel layout with less seams
- Adjusted luff curve for a smoother curve
- More loose leech at the top
- New seam shaping - more shape in the front panels
- Front seams positioned further back in the sail
- Use of NEW C-Film for better durability and performance
- Radial Panel Layout 3G: improved layout for perfect locked in sail shape, smooth profile, twist control and durability!
- 3D EVA mast protector. New design, more user friendly, much easier to handle for maximum shock-absorbing and minimal weight
- 3D mast head protector for maximum shock-absorbing and minimal weight
- Vario Top protector. This little feature protects the exposed adjustment webbing from wear and tear
- Dropped clew - shorter boom, improved lower twist
- Fifth batten crosses the boom area - more power and performance
- Balanced twist - progressive and smooth acceleration
- 2 small cams - performance and locked profile





R&D DETAILS

New outline with Posi Leech, a smaller head area and Compact Batten Positioning brings the battens (and so the center of effort of the sail) further down. The Cosmic also incorporates our other main changes for 2015 - the Stabilized Head configuration and revised panel layout with less seams. We adjusted the luff curve and modified the shape in the seams, making the sail fuller, whilst moving the shape slightly further back in the sail, counteracting this by putting more loose leech in the top. Our trademark features such as C-Film in the 2015 version are included, making the sail's visuals crisper and more transparent, with the new flashy colors. Radial panel layout and a newly designed tack fairing round off the greatness of this range. Newly designed head and clew fairings for additional protection of the exposed areas of the sail keep your pride and joy looking new.

BOTTOM LINE

It will be hard to find any two cam sail that will come close to the Cosmic. Responsive and locked in: light handling with an extensive wind range capacity.

BEN VAN DER STEEN

"Super easy rigging and lightening fast rotation make this sail a great package. The efficient low-end and seemingly endless acceleration make the sail extremely fun for all levels of rider. It's a true freeride champion."

Accessible cambered sail!

High performance with easy rotation

Great range of use



6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.5 | 9.0

SAVAGE

The Savage is a high performance no cam freerace sail. It has all of the features of a race sail, but in a more user-friendly no cam package. Ideal for those sailors with a real need for speed without wanting the excess baggage of a cambered sail. The Savage gives you everything and a little extra. Perfectly suited for freerace blasting by yourself or equally at home on a slalom course. 7 tube rod battens gives heaps of control and range. A dropped tack that allows it to be rigged further down for a better slot closure. Racing style open leech makes for a more high-end performance-oriented sail than any other normal no cam freeride sail. The narrow sleeve and no cams provide light handling especially when throwing the sail into jibes.

FACTS

- Posi Leech
- Compact Batten Positioning
- Stabilized Head Configuration
- Smaller dropped clew
- Revised panel layout with less seams
- Adjusted luff curve for a smoother curve
- More loose leech at the top
- New seam shaping: more shape up in the sail
- Front seams positioned slightly further back in the sail
- Use of NEW C-Film for better durability and performance
- Radial Panel Layout 3G: improved layout for perfect locked in sail shape, smooth profile, twist control and durability
- 3D EVA mast protector. New design, more user friendly, much easier to handle for maximum shock-absorbing and minimal weight
- 3D mast head protector for maximum shock-absorbing and minimal weight
- Vario Top protector. This little feature protects the exposed adjustment webbing from wear and tear
- Dropped clew - shorter boom, improved lower twist
- Seven battens
- No cambers
- Drop tack with tension strap - 100% race sail performance
- Compact outline with shorter luff - the power stays low in the sail
- Dynamic twist pattern - smooth behavior and blistering acceleration





R&D DETAILS

For 2015 we made a new design with a Posi Leech, Compact Batten Positioning and a Stabilized Head, which makes the sail lighter in the hands and more balanced. We added shape in the front panels and a little up higher in the sail to increase the performance in lighter winds. We adjusted the luff curve and opened the loose leech in the top of the sail to increase the range and acceleration. We also reduced the length of the dropped clew, putting it closer to the leech for added stability. Our trademark features such as C-Film make the 2015 Savage crisper and more transparent, with new flashy colors. A radial panel layout and newly designed tack fairing round off the professional finish of this range, whilst the latest head and clew fairings provide additional protection of the exposed areas of the sail, keeping your sail looking new.

BOTTOM LINE

All the advantages of a race sail without all the disadvantages of cams! Jibes like a freeride sail but has speed like a race sail. What more could you ask for?!

CEDRIC BORDES

"The feedback has been so positive for this sail. No one can believe that it's got no cams. It's such a stable sail and has an unmatched top end speed in its class. It's a real head turner!"



Quasi race sail performance

No cam rotation

Great performance in all conditions



5.5 | 6.0 | 6.6 | 7.2 | 7.8 | 8.6

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G A A S T R A W I N D S U R F I N G



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PRO GA SAILS
RIDER
ROSS GBR-83
WILLIAMS

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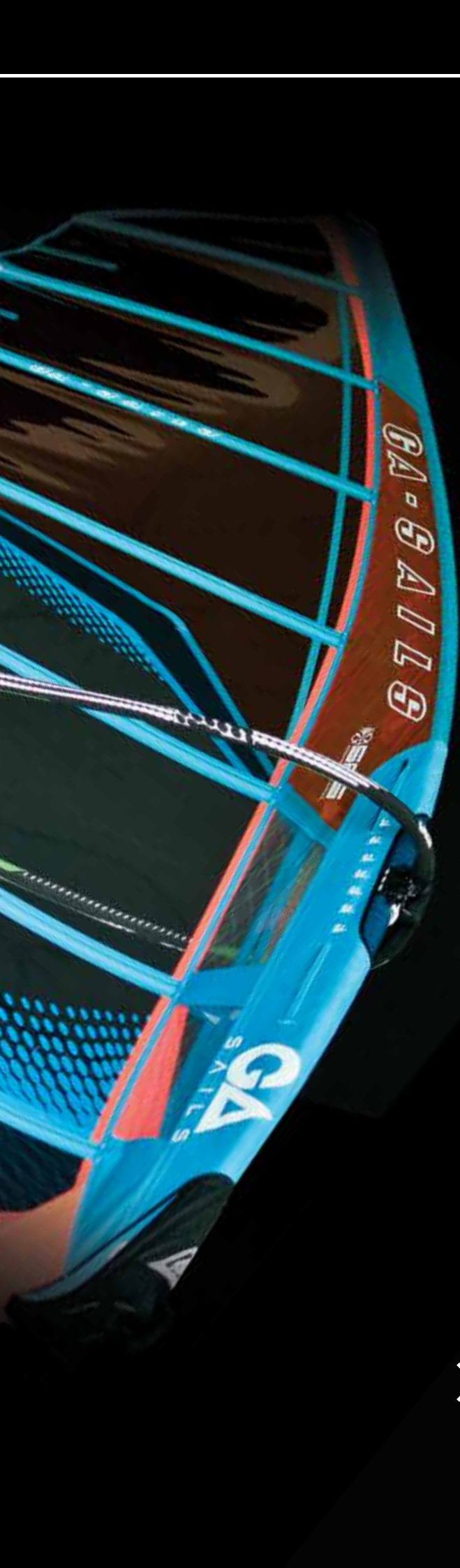
PHANTOM

The GA Phantom is a high performance freerace sail. It is recommended for all riders interested in full-on race speed performance, simplified to make rigging and handling easy and your sailing fun. We made the 2015 model even faster, with the new design features. It has the Posi Leech and Compact Batten Positioning with a Stabilized Head, which makes the sail lighter in the hands and more balanced. We reduced the head area a little and shortened the dropped clew length. We increased the shape in the front and placed it a little up higher in the sail to increase the performance in lighter winds. We also adjusted the luff curve and increased the loose leech in the top of the sail to increase the range. We used our 2-Ply material in the upper half of the mast sleeve to increase the flexibility and positive feedback of our SAS system even more. The new Phantom is incredible - so light in the hands yet with massive performance in only 2 cambers. Only a few details make the Vapor more competitive on the race course, but those are exploited only by the best and most trained riders. Everybody else is probably faster on a Phantom basically a version of the Vapor with a narrower sleeve and one batten less.

FACTS

- New outline
- Posi Leech
- Compact Batten Positioning
- Stabilized Head Configuration
- Slightly smaller head area
- Smaller dropped clew
- Revised panel layout with less seams.
- Adjusted luff curve for a smoother curve
- More loose leech at the top
- New seam shaping: more shape in the foot and front.
- New 2-Ply mast sleeve material
- Use of NEW C-Film for better durability and performance.
- Radial Panel Layout 3G: improved layout for perfect locked in sail shape, smooth profile, twist control and durability
- 3D EVA mast protector. New design, more user friendly, much easier to handle for maximum shock-absorbing and minimal weight
- 3D mast head protector for maximum shock-absorbing and minimal weight
- Vario Top protector. This little feature protects the exposed adjustable webbing from wear and tear
- Dropped clew - shorter boom, improved lower twist
- SAS (Shock Absorbing System) with 2-PLY material allows the rig to flex under high loads at high speeds
- Four composite tube battens
- Two race cambers - smooth rotation, rock solid stability
- Dynamic twist pattern - smooth behavior and blistering acceleration
- Moderately wide multi-material mast sleeve - same construction as Vapor
- Drop tack with tension strap - 100% race sail performance





R&D DETAILS

A new outline with Posi Leech, a smaller head area and Compact Batten Positioning brings the battens and center of effort of the sail further down. Stabilized Head Configuration and revised panel layout with less seams. We adjusted the luff curve and modified the shape in the seams, adding more shape in the front and moving it up slightly whilst putting more looseness in the top of the leech. We also reduced the length of the dropped clew, putting it closer to the leech for improved stability. Our trademark features such as C-Film are present in the 2015 version, making it crisper and more transparent, with new flashy colors. Radial panel layout and a newly designed tack fairing round off the greatness of this range. Revised head and clew fairings provide additional protection for these exposed areas of the sail, keeping it looking new.

BOTTOM LINE

Performance combined with ease. Fast and fun, the Phantom is ready to give anyone a run for their money! Watch out racers - the Phantom is on your path and you could find yourself chasing a ghost!

ROSS WILLIAMS

"I am spending a lot of time at national racing events again, and the one thing that is clear to me is that a lot of the guys using full on race sails could improve their results if they choose a Phantom! It's super easy and light in handling with a killer top end. I am sure they would even enjoy their sailing more."

RACE SAIL PERFORMANCE

USER FRIENDLY WITH MODERATE SLEEVE WIDTH

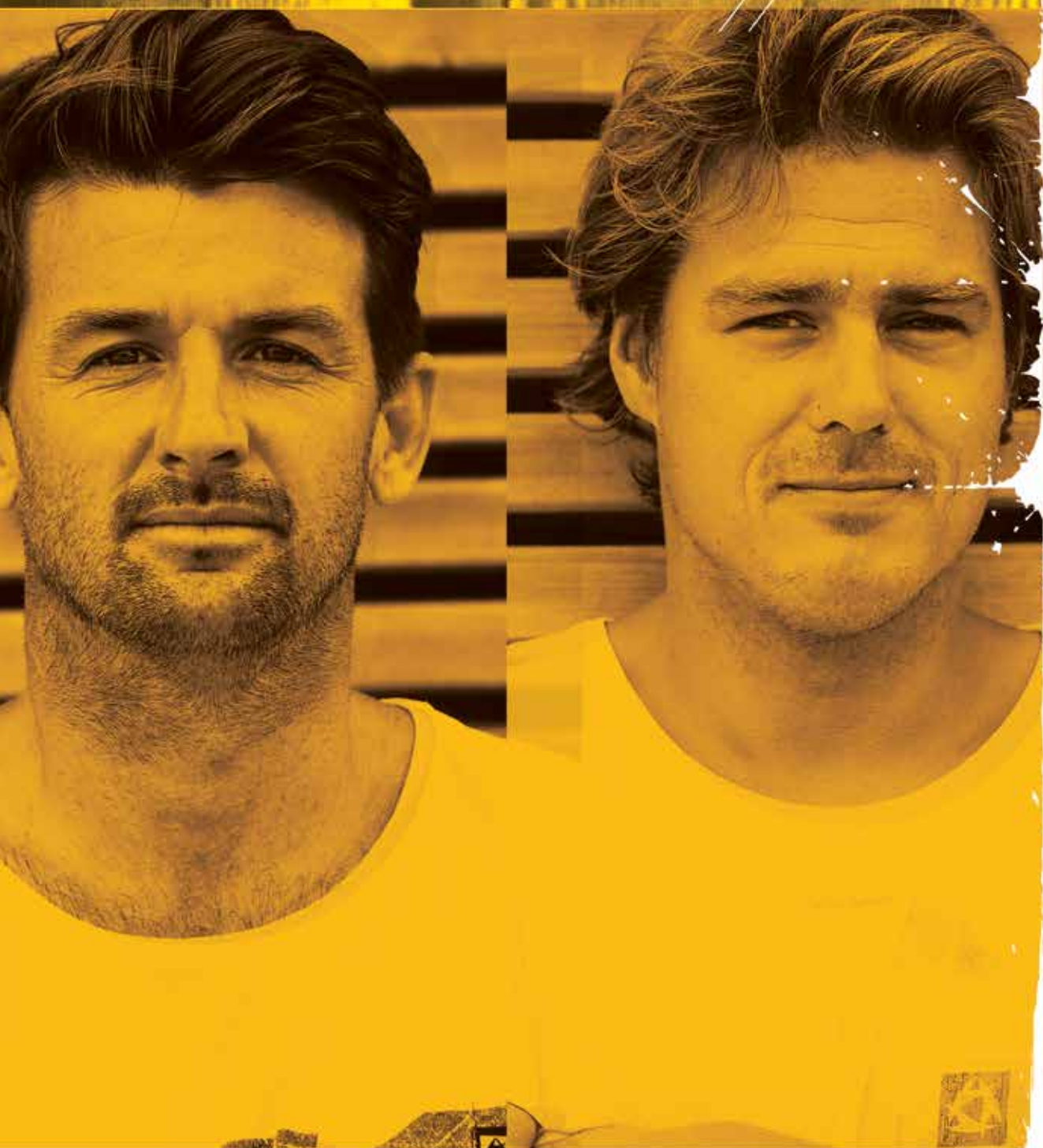
LIGHTER, WITH LESS CAMS THAN A RACE SAIL



5.7 | 6.4 | 7.1 | 7.8 | 8.5 | 9.2

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GA A S T R A W I N D S U R F I N G



NO WORDS CAN EXPLAIN THE GOOD TIMES

PROGA SAILS

RIDER

ROSS GBR-83

WILLIAMS



NO WORDS CAN EXPLAIN THE GOOD TIMES

PROGA SAILS

RIDER

BEN NED-57

VAN DER STEEN



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VAPOR

The Vapor is GA Sails' full racing sail. It is a no compromise design that undergoes continuous development work throughout the year.

Already, the 2014 GA Vapor has picked up 2 world titles! Ross Williams reclaimed his 2012 Formula title and Ben van der Steen was crowned the new IFCA Slalom World Champion. Development is underway and at the moment we are still evaluating different options. But the actual prototypes are already an improvement to the 2014 production sails, which is very promising! To be continued...

FACTS

- Use of NEW C-Film for better durability and performance
- Radial Panel Layout 3G: improved layout for perfect locked in sail shape, smooth profile,
- twist control and durability
- 3D EVA mast protector. New design, more user friendly, much easier to handle for maximum shock-absorbing and minimal weight
- 3D mast head protector for maximum shock-absorbing and minimal weight
- Dropped clew - shorter boom, improved lower twist
- SAS (Shock Absorbing System) with K105 material allows the rig to flex under high loads at high speeds
- Neoprene closure of boom cutout for advanced aerodynamics
- Professional Race Sail - no compromise competition equipment



R&D DETAILS ALL UNDER DEVELOPMENT

- New outline
- Posi Leech or straight leech
- Compact Batten Positioning
- Stabilized Head Configuration
- Smaller dropped clew
- Revised panel layout with less seams
- Adjusted luff curve for a smoother curve
- More loose leech at the top
- New seam shaping, more shape in the foot and front

As this catalogue is being printed the development of the new Vapor is in full swing. Many aspects are finalized, but others are still in the 'testing and development' phase!

BOTTOM LINE

The 2015 Vapor will deliver the goods. Total commitment to development and invention. If your goal is to win, the Vapor is the right choice to make.

ROSS WILLIAMS

"We have now the complete racing package. We have improved early planing, increased control and better top speed. Our results are speaking for themselves: I am sure all of us on the racing team will be battling for podiums."

WIN RACES

NO COMPROMISE PERFORMANCE

MAXIMUM SPEED AND ACCELERATION

5.2 | 5.6 | 6.4 | 7.1 | 7.9 | 8.6 | 9.2 | 9.6 | 10.0 | 11.0 | 12.5



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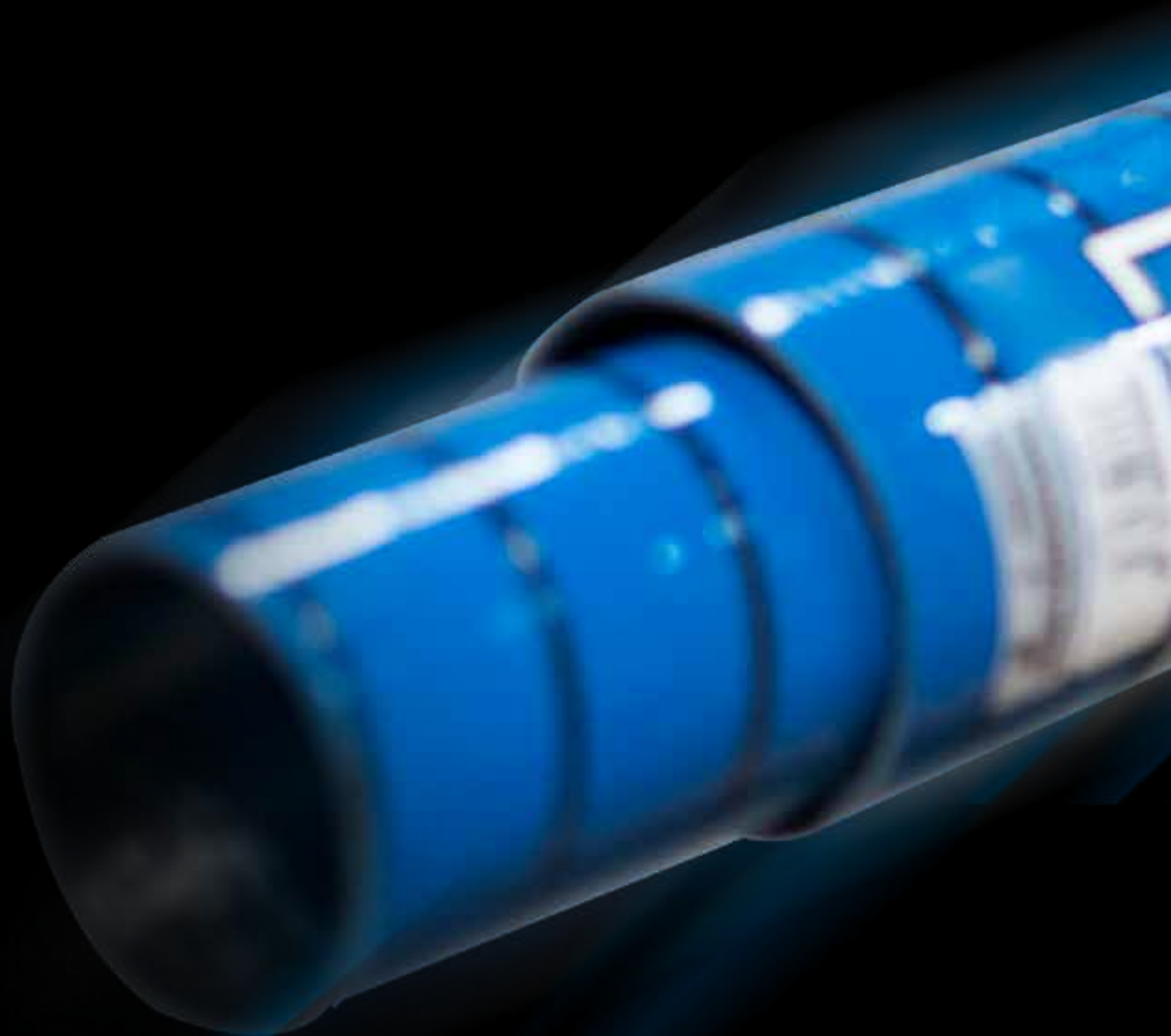
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MAS



STS



MASTS

GA RIG SYSTEM

The new generation of GA masts are proven to be the most high performance and durable masts we have ever produced. All of our masts from the Carbon Race100 to the FOXX are built with a sophisticated technology. Further to that all masts except the SDM 15 are fully or partially protected with the IPS Invisible Polyamid Shield, a polyamid surface coating making the mast 100% scratch and dent resistant.

Our factory has impeccable standards reflecting quality in workmanship, top of the line materials and unique bend characteristics specific to GA criteria. All this delivers high performance products for our team as well as everyone else who trusts the GA brand!

GA 100% SDM

Having a team which demands only the best, we have redesigned our racing mast. A unique constant curve mast delivers unrivaled acceleration and reflex timing that will keep you moving faster and faster! These masts have already proven to be a world title winning spar! Top of the line carbon fiber is used and no expense is spared for the GA 100% Race.

100% SDM 400-490 moving to constant curve concept

Size	IMCS	Weight	Carbon	Surface	Bag
340	14	1.30	100%	IPS*	yes
370	17	1.40	100%	IPS*	yes
400	19	1.45	100%	IPS*	yes
430	21	1.65	100%	IPS*	yes
460	25	1.80	100%	IPS*	yes

Size	IMCS	Weight	Carbon	Surface	Bag
400	19	TBA	100%	IPS	yes
430	21	TBA	100%	IPS*	yes
460	25	TBA	100%	IPS*	yes
490	29	TBA	100%	IPS*	yes
520	34	TBA	100%	IPS*	yes
550	37	TBA	100%	IPS*	yes

The GA 100% RDM mast range are light and strong. These masts must withstand the forces of mother nature and continue to do so with our team who constantly pushes the limits! Built with the highest quality carbon fiber and cutting edge technology the GA 100% RDM delivers ultimate performance from the 340 and upwards!

GA 100% RDM

GA 75% SDM

Produced with the same technology as the GA 100, the 75SDM is a more price friendly option for the freerider or the weekend racer, matching value to performance.

Size	IMCS	Weight	Carbon	Surface	Bag
370	17	1.70	75%	IPS*	yes
400	19	1.80	75%	IPS*	yes
430	21	2.15	75%	IPS*	yes
460	25	2.35	75%	IPS*	yes

Size	IMCS	Weight	Carbon	Surface	Bag
400	19	1.75	75%	IPS*	yes
430	21	1.95	75%	IPS*	yes
460	25	2.05	75%	IPS*	yes
490	29	2.20	75%	IPS*	yes
520	34	2.70	75%	IPS*	yes
550	37	2.80	75%	IPS*	yes

Get the unique GA bend characteristics in a lower carbon content mast. Ideal for budget minded sailors, the strength to weight durability is unmatched! The bend is the same as the 100% RDM and this mast will handle all conditions thrown at it. Freeride or Wave, it will do it all!

GA 75% RDM

GA 60% SDM

Size	IMCS	Weight	Carbon	Bag
340	15	1.75	60%	no
370	17	1.85	60%	no
400	19	1.95	60%	no
430	21	2.25	60%	no
460	25	2.55	60%	no

Made to maximize entry level performance, the SDM 60 does the job. Bend characteristics match as best they can to the 75% and 100% masts making this a great choice for beginners.

The entry level 60 RDM mast from GA offers unrivaled value for those looking for a diverse product built with the latest pre-preg technologies. The 60% Carbon RDM mast is a great solution for those looking to use RDM masts in wave or free ride sails.

GA 60% RDM

Size	IMCS	Weight	Carbon	Bag
400	19	2.00	60%	no
430	21	2.15	60%	no
460	25	2.40	60%	no
490	29	2.70	60%	no

GA FOXX

Size	IMCS	Weight	Carbon	Bag
370	17	1.60	30%	no
400	19	1.95	30%	no
430	21	2.20	30%	no
460	25	2.80	30%	no
490	29	2.85	30%	no

Get Junior the right stuff. The FOXX is developed to work harmoniously with the FOXX Sails- super light weight and durable for a long lasting rig set up!

The price point performer, the 30% carbon mast gets you out there! The diameter has been reduced making it possible to rig your sails with ease. Wall thicknesses have been increased for a stronger more dependable mast.

GA 30% SDM

Size	Weight	Carbon	Bag
300	1.55	30%	no
340	1.62	30%	no



*IPS - The Invisible Polyamid Shield is a mast shielding device.

An invisible barrier from a patented ,Prepreg Force Tank, takes durability and light weight to a new standard. The mast is sealed with a polyamid surface coating making the mast 100% scratch and dent resistant. The strength of these new, 100 & 75% series, masts has been tested at 45% stronger than our previous models. After continuous abuse, the masts look new, stay strong and perform without compromise.

BOO



DMS



GA BOOMS

Introducing the new GA carbon competition boom line-up. The best booms to ever hit the market. With two sizes for wave and freestyle along with 3 race sizes, GA now has a complete range of top level competition booms, each having monocoque one piece carbon tail pieces. The Outline curves are optimized based on target sail sizes and the back ends come with different widths for each boom length making for a perfectly integrated rig. The Race back ends come with a built in pulley system for adjustable outhauls.

Oversized front and tail sections for increased stiffness, reduced diameter in the grip area for increased comfort and ergonomics. A textured grip section in the grip area makes sure your hands don't slip around. A stiffer mast cup for direct force transmission between the boom and mast makes the connection rock solid.

A long closing lever for easy opening and closure while rigging.

The new high tech GA front end is built out of reinforced Plastic for more stiffness, better power load for more performance and lighter weight for better handling.

The new monocoque arms and back ends are built out of the best 100% Carbon quality composite technology available. The all new GA molds are produced under extreme heat and pressure to reach the highest level of carbon composite quality.

WAVE CARBON

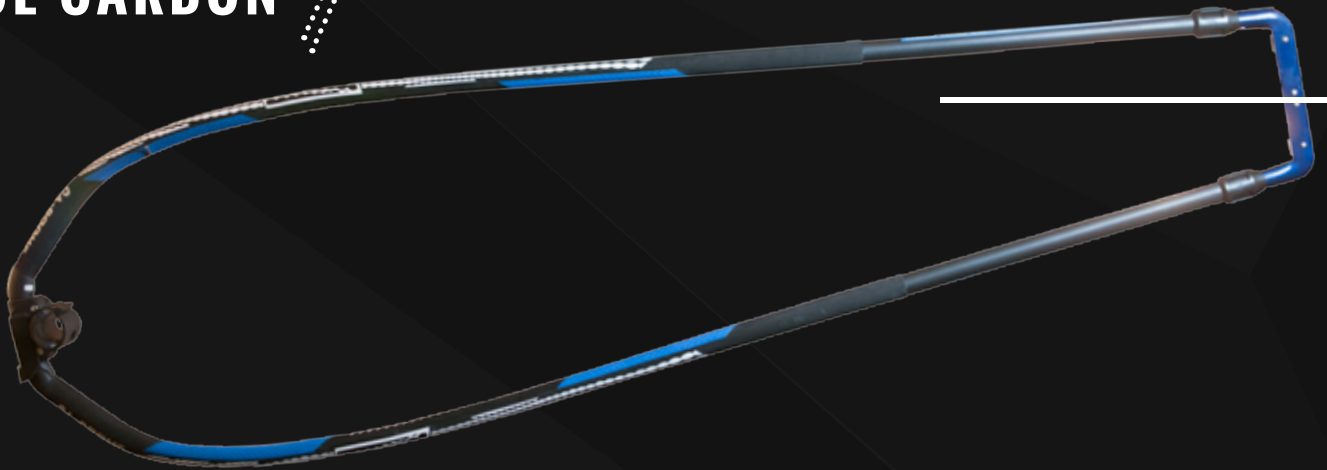


Our newly developed Wave Boom comes in 2 sizes: 140 and 150. A super reduced diameter and partially V shaped grip section give the best ergonomics while the oversized front section gives maximum stiffness. The monocoque molded tail features an intelligent plastic add on component with a rapid outhaul fix system along with a double protection pad for the carbon tail for rock and hard surface encounters.

Size	Grip Diameter	Weight	Material
140 - 190 cm	29.3 mm	2.33 kg	Carbon
150 - 210 cm	29.3 mm	2.44 kg	Carbon



RACE CARBON



The All- New GA Race Boom comes in 3 sizes: 180, 200 and 220. A no compromise racing boom extremely stiff and light. In particular the monocoque molded tail with integrated pulleys is super light and ultra stiff considerably reducing the swing weight which is a very important factor for jibing around the race course. The front and back sections are oversized, properly making it the stiffest and lightest boom on the market.

Size	Grip Diameter	Weight	Material
180 - 230 cm	32.2 mm	2.92 kg	Carbon
200 - 260 cm	32.2 mm	3.24 kg	Carbon
220 - 280 cm	32.2 mm	3.64 kg	Carbon



BLACK LINE

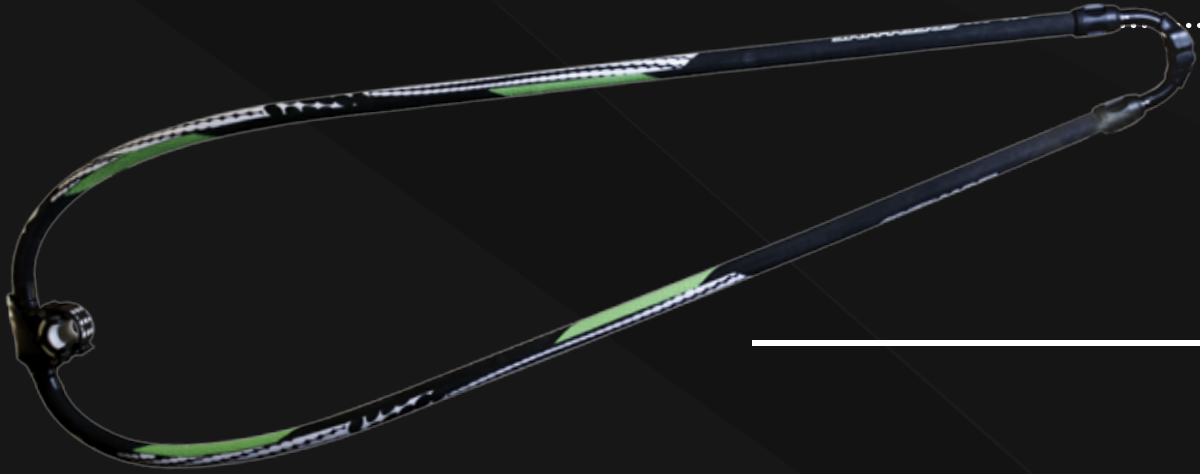


The Black line is uniquely tapered to provide extra stiffness in the back section of the boom. Tests indicate it to be 20% stiffer than the Green line! The new boom head provides a tight connection to the mast while a double push pin operating system guarantees strength and durability. Different bends for each size range make this boom a perfect compromise to carbon performance. Our new look GA boom grip adds the finishing touch to give you the ultimate feeling of your rig.

Size	Grip Diameter	Weight	Material
140 - 190 cm	26 / 29 mm	2.51 kg	Alloy T8
160 - 210 cm	26 / 29 mm	2.67 kg	Alloy T8
180 - 230 cm	26 / 29 mm	2.91 kg	Alloy T8



GREEN LINE

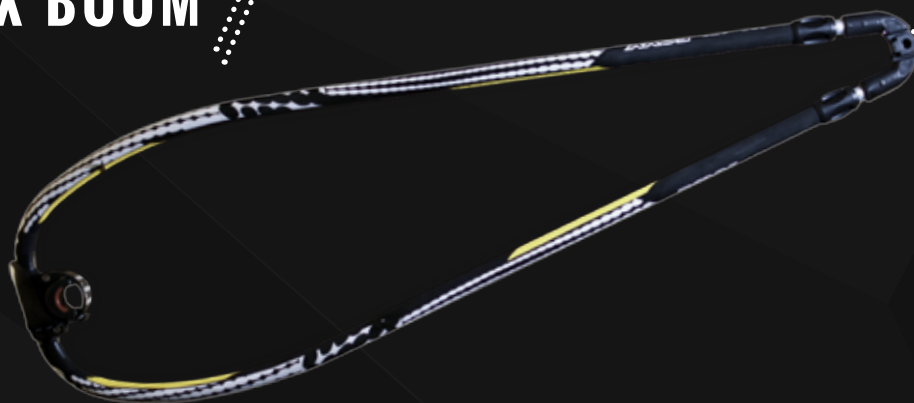


Each length of the green line has a different shape to accommodate different sized sails. The longer the boom the wider the bend giving your rig the perfect balance. The Double push pin operating system guarantees strength and durability to this performance boom. Our new look GA boom grip adds the finishing touch to give you the ultimate feeling of your rig.

Size	Grip Diameter	Weight	Material
140 - 190 cm	29 mm	2.51 kg	Alloy T8
160 - 210 cm	29 mm	2.69 kg	Alloy T8
180 - 230 cm	29 mm	2.95 kg	Alloy T8
200 - 250 cm	29 mm	3.08 kg	Alloy T8



FOXX BOOM



Just what the little one needs to match up his FOXX sail- kid tested, kid approved!!!

Size	Grip Diameter	Weight	Material
120 - 170 cm	25 mm	1.78 kg	Alloy T6





HARNI



ESSES







HARNESSES

TECHNOLOGY BY GAASTRA

EXO | SKELETON

State of the art technology combines the proofed "ARMOR GUARD TECHNOLOGY" with a special harness outline, giving perfect support and freedom of move in any riding situation!

ARMOR GUARD CONSTRUCTION

80 pieces of high end materials make the construction bomb-proof!



The Double 3D shaping gives maximum support and integrates lumbar comfort

BUCKLE UP

The next generation of the "Spring Loaded Bolt" offers maximum comfort on and off. Best ergonomic and function ever!



No pressure or stress points, everything is padded with soft neoprene

LOW PROFILE CONSTRUCTION

Low Profile Construction for strong support and free movement

VIRBATECH

A optimised shape and special material mix ensures best function for lumbar back area.



light weight
CONSTRUCTION

A special material mix with focus on best strength to weight ratio results in an extraordinary light weight harness technology

WAIST SIZE IN CM

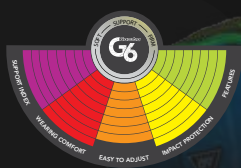
ITEM	XS	S	M	L	XL
G6	-	72	77	82	87
G5 PRO	-	72	77	82	87
UNIT	-	71	76	81	86
GRID	-	71	76	81	86
RIDER	70	75	80	85	90
RACE	70	75	80	85	90

G6

STYLE MASTER

The G6 is our top of the range harness. Its updated design offers the ultimate comfort and support from the double 3D shaping characteristics. Maximum support for your lumbar region is the strong point for this harness! Easy to get in and out, comfortable both on and off the water- the new look G6 will turn heads on the beach!

The special tailored outline will wrap to your body fitting perfectly. A medium to soft flex characteristic adapts to your back to bend when you need to move and stay rigid when you want it to. The integrated EVA cushion protects from heavy impacts and gives added comfort. The built in DUAL STRAP construction spreads out the loading points all over the harness. The BUSB V2 spreader bar makes everything come together in one of the best harnesses on the market!



Construction details

- EXO SKELETON: myriad high end components make the G6 highly ergonomically and nearly bomb-proof!
- SOFT-EDGE Technology: no pressure and stress points, everything is padded with soft neoprene
- Double Webbing attachment point concept
- Full EVA in and out!
- 3D2: "double 3D shaped" PU board on the inside for perfect shape.
- VIBRA-TECH: Extremely rugged and durable construction, quality materials + heavy duty stitching
- integrated kidney belt that runs through the entire harness for the best grip, best flexibility and perfect fit
- BUSB v2 spreader bar with protection pad and integrated knife pocket

G5

BEST SUPPORT POSSIBLE

The G5 is our benchmark harness, a very complete package offering a fresh new look while keeping the fundamentals of a cutting edge harness. The Double 3D shaping gives maximum support and integrates lumbar comfort.



The optimized outline allows the perfect fit to wrap to your body. A medium to soft flex characteristic adapts to your back to bend when you need to move and stay rigid when you want it to.

The integrated EVA cushion protects from heavy impacts and gives added comfort. The built in DUAL STRAP construction spreads out the loading points all over the harness.

The BUSB V2 spreader bar makes everything come together in one of the best harnesses on the market!

G5



Construction details

- Double Webbing attachment point concept
- Armor Guard Construction: 80 pieces of high end materials make the G5 nearly bomb-proof!
- SOFTEDGE Technology: no pressure or stress points, everything is padded with soft neoprene
- Full EVA inside and out!
- 3D2: "double 3D shaped" PU board on the inside (made out of six parts)
- Extremely rugged and durable construction, quality materials + heavy duty stitching
- integrated kidney belt that runs through the entire harness for the best grip, best flexibility and perfect fit
- BUSB spreader bar

UNIT

SUPER SUPPORT

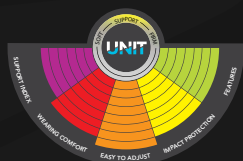
The fresh looking UNIT is our comfortable low profile harness. A harness that feels like you are not wearing one, whilst giving you maximum support. UNIT harness riders want freedom to move with style and power, all in a small package. The lower profile of this harness adapts to your body to support the spine and lumbar region. It has an integrated EVA cushion that provides tons of comfort. The Double 3D shape allows for a tight fit that does not let the harness ride up. The spreader bar comes with a protection pad and the single strap construction allows for easy adjustment. The BUSB gives maximum support both on and off the water.



Construction details

- Single Webbing attachment point concept
- Low Profile Construction for strong support and free movement
- SOFTEDGE Technology: no pressure or stress points, everything is padded with soft neoprene
- 3D2: "double 3D shaped" PU board on the inside (made out of six parts)
- BUSB spreader bar
- Extremely rugged and durable construction, quality materials + heavy duty stitching
- Buckle Up Spreader Bar

UNIT



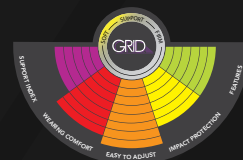
GRID

Get maximum freedom and flexibility with the GRID. This lightweight and flexible harness is strong and comfortable for everyday riding.



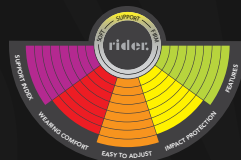
Construction details

- EVA back pad for support and protection of the lower back



RIDER

Better known as the "easy rider" because of its extreme comfort and anti chafe padding. With its 8 load bearing straps, the load is distributed evenly across the whole harness. The medium bar height allows for easy hooking in and out. An easy going harness that will allow you to maximize your time on the water.



RACE

For the serious racer, the Race harness, with its super low bar height, gives you a low center of gravity for maximum pull from the hips and butt. The Race harness will maximize speed, control and comfort. The cross strap system under the buttocks is designed to keep the harness in place without sliding around.



Fixed

18", 20", 22", 24", 26",
28", 30", 32", 34", 36"



Fixed Adjustable

18-24", 22-28",
26-32", 30"-36"



Quick Fixed

18", 20", 22", 24", 26",
28", 30", 32", 34", 36"



Quick Adjustable

18-24", 22-28",
26-32", 30"-36"



Race Adjustable

18-24", 22-28",
26-32", 30"-36"

EXTENSION

TEAM ALU RDM



0 - 30 cm



With the change from Gaastra to GA, the R&D team have re-invented our high performance mast base extension. The aluminum construction guarantees performance and no failures. The roller bearing parts make down hauling your sail easier than ever, while the durable metal parts ensure a long lasting safe product. Tried and tested safe by our GA team.

TEAM ALU SDM



0 - 30 cm



GA PRO BASE



- Low Profile - extreme durable
- Boundless Pin for compatibility and consistency
- Shock absorbing grip padded plate
- Ergonomically shape for toolless attaching and detaching
- Comfortable outer shell minimize toes and feet injury



0 - 45 cm

REGULAR UPHAUL

140 cm long



TIE DOWN STRAPS

4.5 m & 6.0 m long



T - BOOM PROTECTOR

Extends down mast 20 cm



BOOM PROTECTOR



ROOF RACKS

50 cm long



0 - 45 cm



BAGS

Developed

together with our team, the new look GA team bags, are designed to be light and durable, and meet the demands of the most hardened traveler. With a diverse range, you will be able to protect all your equipment, be it a trip to your local beach or to the other side of the globe.

Light Board Bag



237 cm x 60 cm, 237 cm x 70 cm
245 cm x 70 cm, 245 cm x 80 cm, 245 cm x 90 cm
255 cm x 70 cm, 255 cm x 80 cm
265 cm x 80 cm

Formula Board Bag Single



L 260cm x W 107cm x H 14cm

Quiver Bag (with wheels)



Wave: L 220cm x W 36cm x H 33.5cm

Freeride: L 260cm x W 36cm x H 33.5cm

Double and Triple Freestyle Bag (with wheels)



Double: L 250cm x W 65cm x H 25cm

Triple: L 270cm x W 73cm x H 40cm

POWERED BY INNOVATION

G A A S T R A W I N D S U R F I N G



TYPICAL
QUALITY
STANDARDS

NO WORDS CAN EXPLAIN
THE GOOD TIMES...
PRO GA
RIDER
TONKY NB-7
FRANS



GA VAPOR 3 FORMULA BOARD VICTORIOUS !



- **Wide Tail** // improves up wind ability and light wind power
- **Longer Flat** // helps early planing and speed
- **More Volume in the Back of the Board** // Vapor 3 rides easy and high on the down wind and takes a big sail with no problem
- **Double Chicken Straps** // easy and fast in strong winds

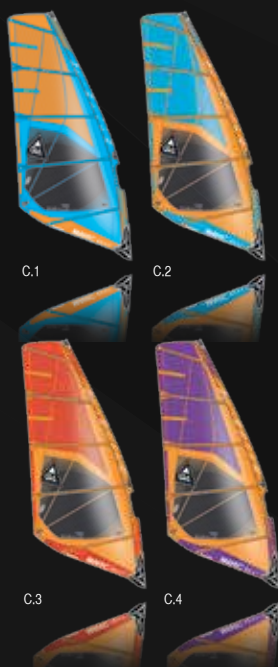
VAPOR 3

The Vapor Formula has proven itself yet again to be the fastest formula board available on the market. In 2014 Ross Williams took back his world title on the new and improved Vapor3 formula board. This latest model has increased volume distribution and a wider tail to improve upwind and downwind angle and speed performance. With a construction built to save weight and increase stiffness, this secret formula has brought GA to the top of the podium in countless races across the globe. No gimmicks, just a simple and fast racing machine!



Ross Williams - 2014 FORMULA WORLD CHAMPION

We were very conscious not to over complicate our latest design. Simple improvements gave us the biggest gains. My requirements were power and control, which gave me a competitive board in every condition of wind.



MANIC HD

SIZE	MAST	IMCS	LUFF	BOOM	BASE	BATTEN	TOP	CAMS	IDEAL MAST
3.3	370	17	339	140	0	4	Vario	0	Gaastra 100 RDM
3.7	370	17	360	146	0	4	Vario	0	Gaastra 100 RDM
4.0	370	17	373	149	5	4	Vario	0	Gaastra 100 RDM
4.2	370	17	379	154	10	4	Vario	0	Gaastra 100 RDM
4.5	370	17	389	159	20	5	Vario	0	Gaastra 100 RDM
4.7	400/370	19/17	400	160	2.5	5	Vario	0	Gaastra 100 RDM
5.0	400	19	406	164	7.5	5	Fixed	0	Gaastra 100 RDM
5.3	400	19	421	168	22.5	5	Fixed	0	Gaastra 100 RDM
5.7	430/400	21/19	434	173	5	5	Fixed	0	Gaastra 100 RDM

Compatible with other masts that are equal in length and IMCS.

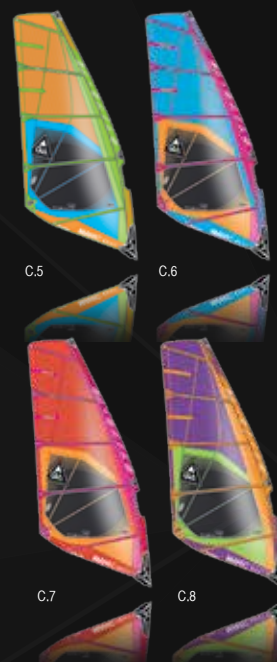
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MANIC

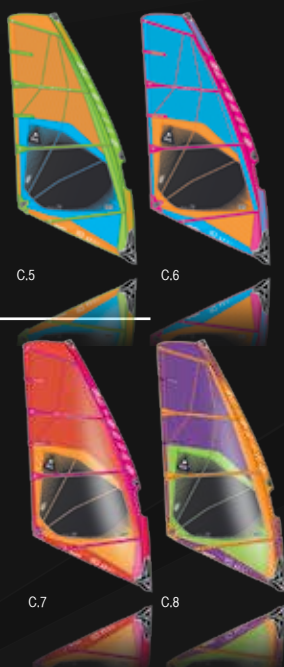
SIZE	MAST	IMCS	LUFF	BOOM	BASE	BATTEN	TOP	CAMS	IDEAL MAST
3.3	370	17	339	140	0	4	Vario	0	Gaastra 100 RDM
3.7	370	17	360	146	0	4	Vario	0	Gaastra 100 RDM
4.0	370	17	373	149	5	4	Vario	0	Gaastra 100 RDM
4.2	370	17	379	154	10	4	Vario	0	Gaastra 100 RDM
4.5	370	17	389	159	20	5	Vario	0	Gaastra 100 RDM
4.7	400/370	19/17	400	160	2.5	5	Vario	0	Gaastra 100 RDM
5.0	400	19	406	164	7.5	5	Fixed	0	Gaastra 100 RDM
5.3	400	19	421	168	22.5	5	Fixed	0	Gaastra 100 RDM
5.7	430/400	21/19	434	173	5	5	Fixed	0	Gaastra 100 RDM

Compatible with other masts that are equal in length and IMCS.

Current technical specifications! All rights reserved to improve / modify / change any product at anytime.



IQ



SIZE	MAST	IMCS	LUFF	BOOM	BASE	BATTEN	TOP	CAMS	IDEAL MAST
3.3	370	17	337	139	0	4	Vario	0	Gaastra 100 RDM
3.6	370	17	354	143	0	4	Vario	0	Gaastra 100 RDM
4.0	370	17	370	150	0	4	Vario	0	Gaastra 100 RDM
4.2	370	17	377	153	7.5	4	Vario	0	Gaastra 100 RDM
4.5	370	17	390	159	20	4	Vario	0	Gaastra 100 RDM
4.7	370	17	397	162	27.5	4	Vario	0	Gaastra 100 RDM
5.0	400	19	404	164	5	4	Fixed	0	Gaastra 100 RDM
5.4	400	19	416	173	17.5	4	Fixed	0	Gaastra 100 RDM

Compatible with other masts that are equal in length and IMCS.

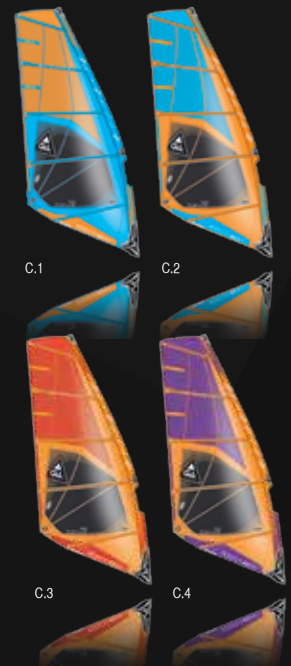
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POSITION

SIZE	MAST	IMCS	LUFF	BOOM	BASE	BATTEN	TOP	CAMS	IDEAL MAST
4.0	370	17	374	150	5	5	Vario	0	Gaastra 100 RDM
4.2	370	17	384	155	15	5	Vario	0	Gaastra 100 RDM
4.5	370/400	17	398	159	30	5	Vario	0	Gaastra 100 RDM
4.7	400	19	408	162	10	5	Fixed	0	Gaastra 100 RDM
5.0	400	19	411	165	12.5	5	Fixed	0	Gaastra 100 RDM
5.4	400	19	421	172	22.5	5	Fixed	0	Gaastra 100 RDM
5.8	430/400	21/19	433	178	5	5	Fixed	0	Gaastra 100 RDM
6.2	430	21	440	187	10	5	Fixed	0	Gaastra 100 RDM

Compatible with other masts that are equal in length and IMCS.

Current technical specifications! All rights reserved to improve / modify / change any product at anytime.



PURE

SIZE	MAST	IMCS	LUFF	BOOM	BASE	BATTEN	TOP	CAMS	IDEAL MAST
3.8	370	17	364	153	0	4	Vario	0	Gaastra 100 RDM
4.2	370	17	380	152	10	4	Fixed	0	Gaastra 100 RDM
4.4	370	17	388	155	20	4	Fixed	0	Gaastra 100 RDM
4.8	400	19	408	159	10	4	Fixed	0	Gaastra 100 RDM
5	400	19	412	163	12.5	4	Fixed	0	Gaastra 100 RDM
5.2	400	19	420	168	20	4	Fixed	0	Gaastra 100 RDM
5.4	400	19	429	172	30	4	Fixed	0	Gaastra 100 RDM
5.7	430	21	434	177	5	4	Fixed	0	Gaastra 100 RDM

Compatible with other masts that are equal in length and IMCS.

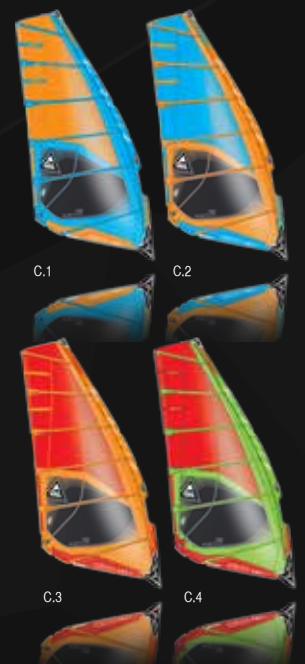
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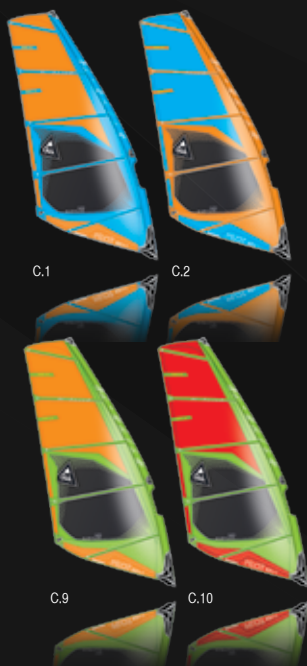
CROSS

SIZE	MAST	IMCS	LUFF	BOOM	BASE	BATTEN	TOP	CAMS	IDEAL MAST
4.8	400	19	408	161	10	5	Vario	0	Gaastra 100 RDM
5.2	400	19	421	170	22.5	5	Vario	0	Gaastra 100 RDM
5.6	430	21	432	171	2.5	5	Fixed	0	Gaastra 100 RDM
6.0	430	21	441	181	12.5	5	Fixed	0	Gaastra 100 RDM / SDM
6.4	430	21	451	189	22.5	6	Fixed	0	Gaastra 100 RDM / SDM
6.9	430	21	456	200	27.5	6	Fixed	0	Gaastra 100 RDM / SDM

Compatible with other masts that are equal in length and IMCS.

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PILOT

SIZE	MAST	IMCS	LUFF	BOOM	BASE	BATTEN	TOP	CAMS	IDEAL MAST
4.5	400-430	19	402	159	2.5	5	Vario	0	Gaastra 30 RDM-SDM
5.0	400-430	19	418	170	20	5	Vario	0	Gaastra 30 RDM-SDM
5.5	430-460	21	436	178	7.5	5	Vario	0	Gaastra 30 RDM-SDM
6.0	430-460	21	448	185	20	5	Vario	0	Gaastra 30 RDM-SDM
6.5	430-460	21	455	197	25	5	Vario	0	Gaastra 30 RDM-SDM
7.0	430-460	21	460	207	30	5	Vario	0	Gaastra 30 SDM
7.5	460-430	25	469	218	10	5	Fixed	0	Gaastra 30 SDM

Compatible with other masts that are equal in length and IMCS.

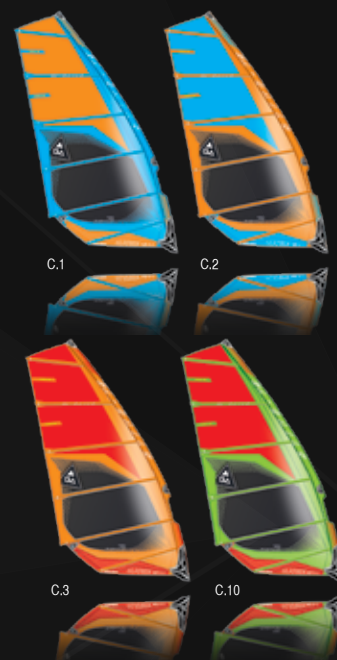
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MATRIX

SIZE	MAST	IMCS	LUFF	BOOM	BASE	BATTEN	TOP	CAMS	IDEAL MAST
5.5	430-460	21	431	166	2.5	6	Vario	0	Gaastra 75/60 SDM-RDM
6.0	430-460	21	441	175	12.5	6	Vario	0	Gaastra 75/60 SDM-RDM
6.5	430-460	21	454	187	25	6	Vario	0	Gaastra 75/60 SDM-RDM
7.0	460	25	466	195	7.5	6	Fixed	0	Gaastra 75/60 SDM
7.5	460	25	476	202	17.5	6	Fixed	0	Gaastra 75/60 SDM
8.0	460	25	484	213	25	6	Fixed	0	Gaastra 75/60 SDM
8.5	490	29	497	220	7.5	6	Fixed	0	Gaastra 75/60 SDM

Compatible with other masts that are equal in length and IMCS.

Current technical specifications! All rights reserved to improve / modify / change any product at anytime.



COSMIC



SIZE	MAST	IMCS	LUFF	BOOM	BASE	BATTEN	TOP	CAMS	IDEAL MAST
6.0	430	21	437	177	7.5	6	Vario	2	Gaastra 75/60 SDM
6.5	430	21	454	187	25	6	Vario	2	Gaastra 75/60 SDM
7.0	460	25	465	195	5	6	Fixed	2	Gaastra 75/60 SDM
7.5	460	25	476	203	17.5	6	Fixed	2	Gaastra 75/60 SDM
8.0	460	25	483	214	25	6	Fixed	2	Gaastra 75/60 SDM
8.5	490	29	496	218	7.5	6	Fixed	2	Gaastra 75/60 SDM
9.0	490	29	508	227	20	6	Fixed	2	Gaastra 75/60 SDM

Compatible with other masts that are equal in length and IMCS.

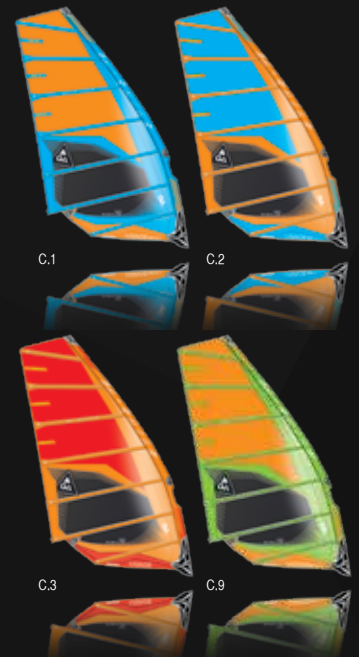
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SAVAGE

SIZE	MAST	IMCS	LUFF	BOOM	BASE	BATTEN	TOP	CAMS	IDEAL MAST
5.5	400/430	19/21	412	170	15	7	Vario	0	Gaastra 75/60 SDM/RDM
6.0	430	21	431	178	2.5	7	Vario	0	Gaastra 75/60 SDM/RDM
6.6	430	21	443	187	15	7	Vario	0	Gaastra 75/60 SDM/RDM
7.2	430/460	21/25	457	198	30	7	Vario	0	Gaastra 75/60 SDM/RDM
7.8	460/430	25/21	470	208	12.5	7	Fixed	0	Gaastra 75/60 SDM
8.6	490/460	29/25	494	217	5	7	Fixed	0	Gaastra 75/60 SDM

Compatible with other masts that are equal in length and IMCS.

Current technical specifications! All rights reserved to improve / modify / change any product at anytime.

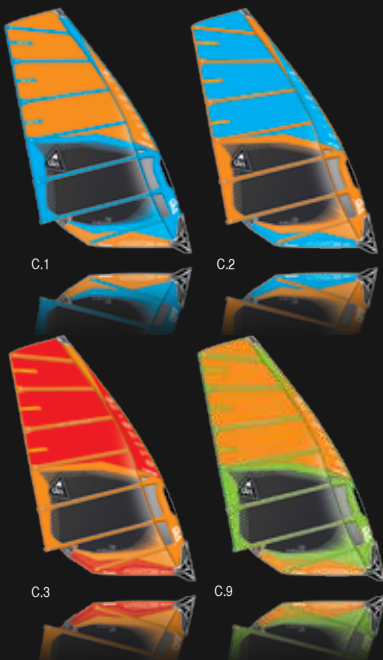


PHANTOM

SIZE	MAST	IMCS	LUFF	BOOM	BASE	BATTEN	TOP	CAMS	IDEAL MAST
5.7	400/430	19	412	177	15	7	Vario	2	Gaastra 75 SDM
6.4	430	21	435	189	7.5	7	Vario	2	Gaastra 75 SDM
7.1	430/460	21/25	453	201	25	7	Vario	2	Gaastra 75 SDM
7.8	460/430	25/21	470	210	12.5	7	Fixed	2	Gaastra 75 SDM
8.5	490/460	29/25	493	218	5	7	Fixed	2	Gaastra 75 SDM
9.2	490	29	513	223	25	7	Fixed	2	Gaastra 75 SDM

Compatible with other masts that are equal in length and IMCS.

Current technical specifications! All rights reserved to improve / modify / change any product at anytime.



VAPOR

SIZE	MAST	IMCS	LUFF	BOOM	BASE	BATTEN	TOP	CAMS	IDEAL MAST
5.2	400	19	402	183	5	8	Vario	4	Gaastra 75 SDM
5.6	400	19	411	184	12.5	8	Fixed	4	Gaastra 75 SDM
6.4	430	21	436	197	7.5	8	Fixed	4	Gaastra 100 SDM
7.1	430	21	458	208	30	8	Fixed	4	Gaastra 100 SDM
7.9	460	25	487	220	30	8	Fixed	4	Gaastra 100 SDM
8.6	490	29	505	231	17.5	8	Fixed	4	Gaastra 100 SDM
9.2	490	29	517	240	30	8	Fixed	4	Gaastra 100 SDM
9.6	490	29	530	245	42.5	8	Fixed	4	Gaastra 100 SDM
10.0	520	34	535	260	17.5	8	Fixed	4	Gaastra 100 SDM
11.0	550	37	565	272	17.5	8	Fixed	4	Gaastra 100 SDM
12.5	550	37	597	284	50 ext.	8	Fixed	4	Gaastra 100 SDM

Compatible with other masts that are equal in length and IMCS.

Current technical specifications! All rights reserved to improve / modify / change any product at anytime.



FOXX



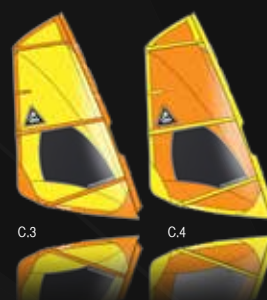
SIZE	MAST	IMCS	LUFF	BOOM	BASE	BATTEN	TOP	CAMS	IDEAL MAST
2.2	300	TBA	275	116	0	3	Vario	0	Gaastra FOXX
2.5	300	TBA	287	120	0	3	Vario	0	Gaastra FOXX
3.0	300	TBA	323	138	25	3	Vario	0	Gaastra FOXX
3.5	300	TBA	323	147	25	3	Vario	0	Gaastra FOXX
4.0	300	TBA	335	162	35	3	Vario	0	Gaastra FOXX

Compatible with other masts that are equal in length and IMCS.

Current technical specifications! All rights reserved to improve / modify / change any product at anytime.

FREETIME

SIZE	MAST	IMCS	LUFF	BOOM	BASE	BATTEN	TOP	CAMS	IDEAL MAST
1.0	300	TBA	166	122	TBA	1	Vario	0	Gaastra FOXX
1.5	300	TBA	200	120	TBA	1	Vario	0	Gaastra FOXX
2.0	300	TBA	223	121	TBA	1	Vario	0	Gaastra FOXX
2.5	300	TBA	246	137	TBA	1	Vario	0	Gaastra FOXX
3.0	300	TBA	287	154	TBA	2	Vario	0	Gaastra FOXX
3.5	400	TBA	312	157	TBA	3	Vario	0	Gaastra 15 SDM
4.0	400	TBA	338	160	TBA	3	Vario	0	Gaastra 15 SDM
4.5	400	TBA	373	169	TBA	3	Vario	0	Gaastra 15 SDM
5.0	430	TBA	404	176	TBA	4	Vario	0	Gaastra 15 SDM
5.5	430	TBA	420	185	TBA	4	Vario	0	Gaastra 15 SDM
6.0	430	TBA	440	193	TBA	4	Vario	0	Gaastra 15 SDM
6.5	460	TBA	464	200	TBA	4	Vario	0	Gaastra 15 SDM



Compatible with other masts that are equal in length and IMCS.

Current technical specifications! All rights reserved to improve / modify / change any product at anytime.

FOR XPLY AND DACRON VERSION

VAPOR 3



MODEL	VOL.	LENGTH	WIDTH
VAPOR 3	178 L	230 CM	100.5 CM



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