



**AVANTI**





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2013

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AVANTI

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C. Schuck

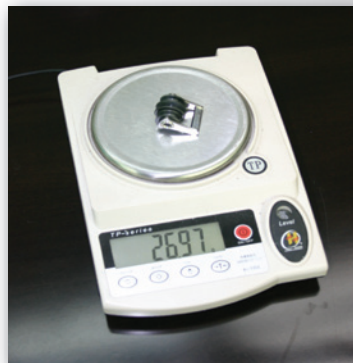
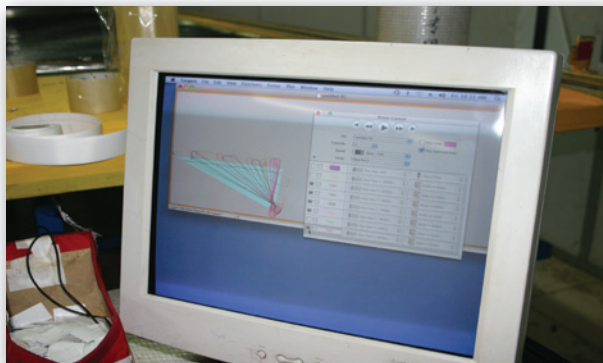
INSPIRED PERFORMANCE



# TECHNOLOGY

We take a unique approach to technology. Just because it looks impossible, or it initially looks too costly, we don't automatically shy away from innovation. Instead, we look deeper. Behind every dream technology is an inspiration, an idea, and a drive to look for ways to tweak and improve the engineering to match well within our targets. The fruits of this approach are clearly present throughout our products.

**Membranes are just the beginning...**



## R1. HEADCAP

MINIMUM WEIGHT AND PROFILE WITH AN INTEGRATED THRUST WASHER FOR CLEAN HEAD ROTATION.



## CARBON BATTENS

GENUINE CARBON FIBER BATTEN STOCK LOCK IN DRAFT PLACEMENT.



## MICROLIGHT TENSIONERS

MINIMUM WEIGHT BATTEN TENSIONERS MOLDED IN RESILIENT POLY CARBONATE.



## ARC CAMS

DESIGNED IN AN ARRAY OF SIZES TO FIT EVERY MAST DIAMETER AND LOAD REQUIREMENT. EXTRA ARC ON THE SIDEWALL FOR IMPROVED AERODYNAMICS.



## C. CLIP

CAREFULLY DESIGNED PROPRIETARY CLOSURE SYSTEM STREAMLINES INSET CLEW AREA.



## MULTI KEY

STRONG AND EFFECTIVE BATTEN KEY.



## NYLATRON PULLEY

LOW FRICTION, MINIMUM WEIGHT TACK PULLEY UTILIZING NYLATRON ROLLERS.

# WAVE



## 3.6 - 4.0 - 4.4 - 4.8 - 5.2 - 5.6

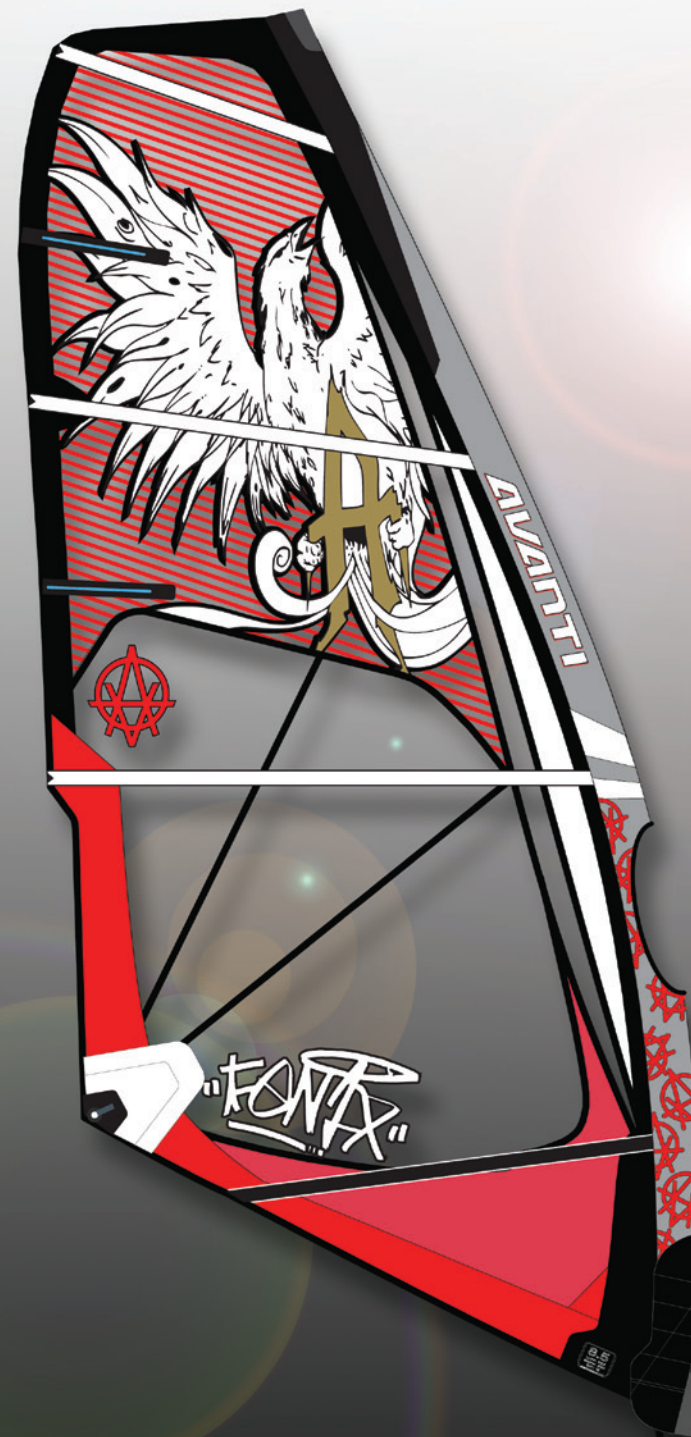
Avanti is rising from the ashes with a next generation wave weapon. Semi-compact, with a high-cut foot roach, the **Fenix** has the juice to push a modern multi-fin waveboard, without compromising stability over a huge wind range. The overall versatility is well-tested and proven, with excellent results in both messy onshore, and cross-off conditions.

*"For a long time, I've been obsessed with compact outlines and sail graphics based on real artwork. The Fenix has all the ingredients of my past work, plus a lot of modern tweaks. This sail is what it's all about."*

--Dan Kaseler

SIZE	LUFF	BOOM	BASE	BATTENS	CAMS	MAST CHOICE	WEIGHT [kg]
3.6	TBA	TBA	TBA	4	0	Avanti RDM 370	TBA
4.0	TBA	TBA	TBA	4	0	Avanti RDM 370	TBA
4.4	TBA	TBA	TBA	4	0	Avanti RDM 370	TBA
4.8	TBA	TBA	TBA	4	0	Avanti RDM 400	TBA
5.2	TBA	TBA	TBA	5	0	Avanti RDM 400	TBA
5.6	TBA	TBA	TBA	5	0	Avanti RDM 400	TBA

- Teijin 8083 luff sleeve material gives excellent durability and repels water.
- R.1 HeadCap.
- Super lightweight 'Nylatron' tack pulley wheels save weight and allow easy downhauling.
- Graduated Batten layout tailored to sail sizing.
- Spectra Webbing.
- MicroLight Batten Tensioners.
- Anti-Abrasion Silicon Bumpers.





# WAVE VIPER

4.0 - 4.5 - 5.0 - 5.5 - 6.0

Do you crave the hiss of a clean bottom turn and the smack of a fat lip? It's time to sweep aside marketing and focus. The **Viper** is a clean, light, wavesail strung in Aramid fiber, utilizing Avanti's proprietary lamination system. Best suited for down-the-line sailing, with good bump and jump potential, the Viper has an unsurpassed strength to weigh ratio. A classic outline feels natural on a wide range of boards. There has never been a commercially available wavesail of this quality.

*"Over the years, I've ridden for a lot of brands. I'm always looking for the right spring, balance, and feeling. We knew we needed to bring everything we learned about high-tech laminations into the world of elite wave riding. The Viper is so light and comfortable, I can pull sick moves without wrestling the rig."*

--Peter Volwater

- The sail body consists of a custom Aramid fiber loadpath membrane weighing in 15% under anything else in the marketplace.
- Teijin 8083 luff sleeve material gives excellent durability and repels water.
- R.1 HeadCap.
- Super lightweight 'Nylatron' tack pulley wheels save weight and allow easy downhauling.
- Graduated Batten layout tailored to sail sizing.
- Spectra Webbing.
- MicroLight Batten Tensioners.
- Anti-Abrasion Silicon Bumpers.

SIZE	LUFF	BOOM	BASE	BATTENS	CAMS	MAST CHOICE	WEIGHT [kg]
4.0	TBA	TBA	TBA	5	0	Avanti RDM 370	TBA
4.5	TBA	TBA	TBA	5	0	Avanti RDM 400	TBA
5.0	TBA	TBA	TBA	5	0	Avanti RDM 400	TBA
5.5	TBA	TBA	TBA	5	0	Avanti RDM 430	TBA
6.0	TBA	TBA	TBA	5	0	Avanti RDM 430	TBA



# FREESTYLE ECHO ME

4.4 -4.8 - 5.2 -5.6 -6.2

Based on the most dominant freestyle sail of all time, Avanti is proud to introduce the **Echo ME**. The proven outline and shape-flow are built on a rock solid foundation of feedback from the world's most progressive riders. Add the futuristic membrane construction, and you've entered the next dimension. Weight and handling reign supreme. Nothing is lighter. Nothing has more pop.

If you're serious, this is the only freestyle sail on the market to have in your quiver bag.

*"This sail encompasses many of the best features of its predecessor. Stringing it in our lightweight, yet strong, membrane technology delivers unmatched pop and fluid power. In freestyle, weight is paramount. There is simply no way to achieve such a result with a traditional film, or x-ply sail."*

--Dan Kaseler

SIZE	LUFF	BOOM	BASE	BATTENS	CAMS	MAST CHOICE	WEIGHT [kg]
4.4	TBA	TBA	TBA	4	0	Avanti RDM 370	TBA
4.8	TBA	TBA	TBA	4	0	Avanti RDM 400	TBA
5.2	TBA	TBA	TBA	5	0	Avanti RDM 400	TBA
5.6	TBA	TBA	TBA	5	0	Avanti RDM 430	TBA
6.2	TBA	TBA	TBA	5	0	Avanti RDM 430	TBA

- The sail body consists of a custom Aramid fiber loadpath membrane weighing in 15% under anything else in the marketplace.
- Teijin 8083 luff sleeve material gives excellent durability and repels water.
- R.1 HeadCap.
- Super lightweight 'Nylatron' tack pulley wheels save weight and allow easy downhauling.
- Graduated Batten layout tailored to sail sizing.
- Spectra Webbing.
- MicroLight Batten Tensioners.
- Anti-Abrasion Silicon Bumpers.





# PERFORMANCE FREERIDE *POWERIDE*

5.8 - 6.6 - 7.4 - 8.2 - 9.0

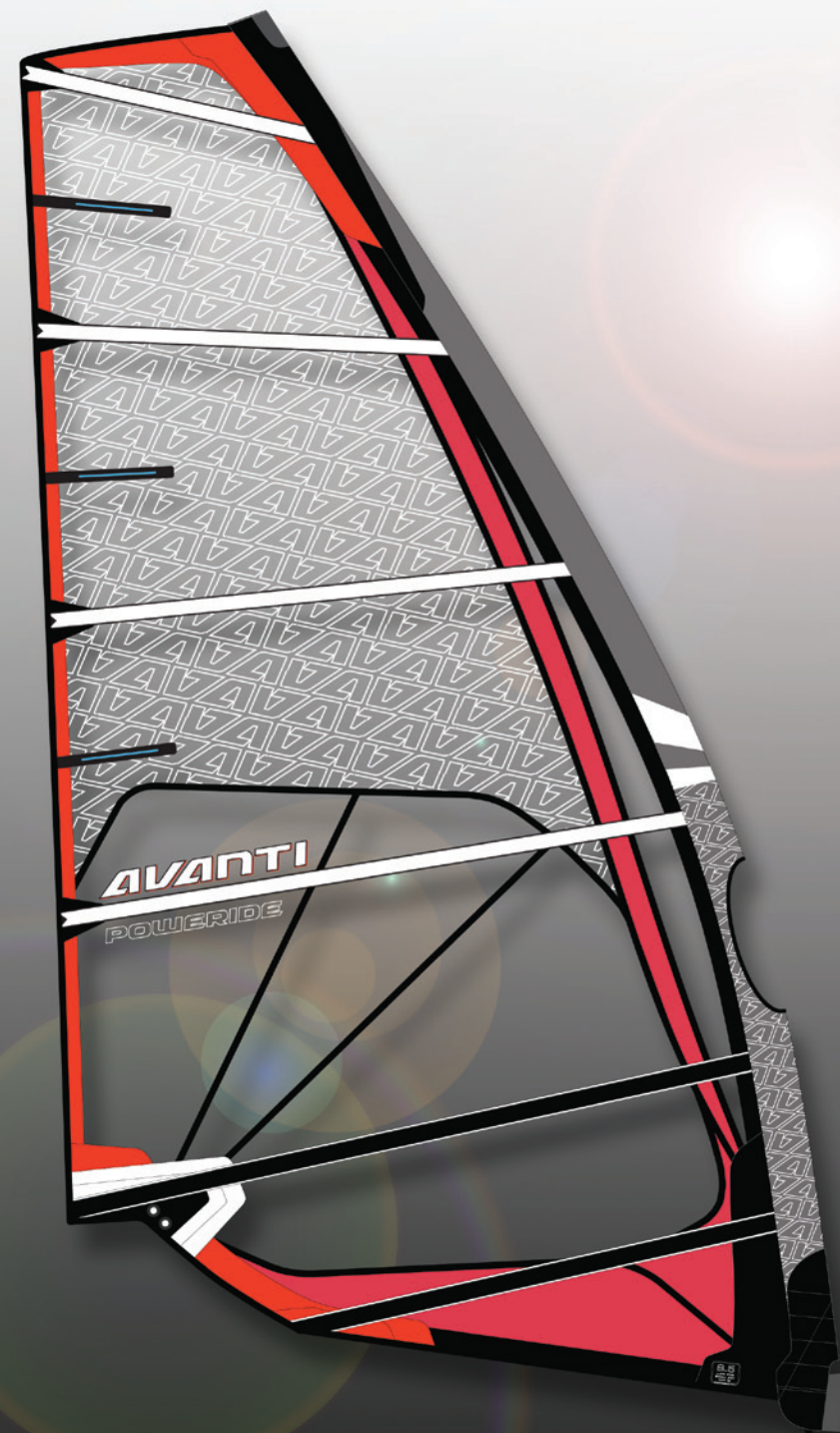
The **Poweride** is a high-end, no-cam, freeride sail with excellent top-end speed and silky handling. Featuring a film-based layout, the Poweride is supported by a 6-8 batten skeleton, based on sail size and use characteristics. The small sizes put a premium on supercross handling, with a slightly higher foot, and balanced outline. The larger sizes are designed to be comfortable, fast, and direct. The Poweride is a true performer across the range.

*"Performance oriented no-cam sails have always been interesting to me, not just because they encompass so much of the market, but also because they are a fantastic design challenge. With Avanti, we are leveraging real technology both in materials, and design tools, enabling us to push the company into the leading edge of the sport."*

--Dan Kaseler

SIZE	LUFF	BOOM	BASE	BATTENS	CAMS	MAST CHOICE	WEIGHT [kg]
5.8	TBA	TBA	TBA	6	0	Avanti SDM 430	TBA
6.6	TBA	TBA	TBA	6	0	Avanti SDM 430	TBA
7.4	TBA	TBA	TBA	7	0	Avanti SDM 460	TBA
8.2	TBA	TBA	TBA	7	0	Avanti SDM 490	TBA
9.0	TBA	TBA	TBA	8	0	Avanti SDM 490	TBA

- Genuine carbon tube battens in key areas provide a rock-solid skeleton.
- Teijin 8083 luff sleeve material gives excellent durability and repels water.
- Patent pending 'C-Clip' clew closure system makes rigging a snap.
- R.1 HeadCap.
- Super lightweight 'Nylatron' tack pulley wheels save weight and allow easy downhauling.
- Graduated Batten layout tailored to sail sizing.
- Spectra Webbing.
- MicroLight Batten Tensioners.
- Anti-Abrasion Silicon Bumpers.





# PERFORMANCE FREERACE

## CONDOR

5.8 - 6.6 - 7.4 - 8.2 - 9.0

The **Condor** is our premiere freerace offering. Building on extensive background, we are proud to offer the world's most high-tech freerace sail. As sail sizes increase, so does the need for outright stability. We answer this call by setting up the 5.8 and 6.2 sizes fully RAF, while the large sizes are stabilized by Arc Cams. Each sail size is carefully targeted to maximum performance over a wide range of conditions. Featuring our incredible membrane construction, the Condor is lightweight, strong, and incredibly fast. Freerace isn't just a marketing tag. The Condor is designed to blow the doors off the competition.

*"All of us involved in the Avanti project have been blown away by the performance gained by utilizing membrane construction. Not only are the membranes amazingly durable, they are also lightweight and direct."*

--Peter Volwater

SIZE	LUFF	BOOM	BASE	BATTENS	CAMS	MAST CHOICE	WEIGHT [kg]
5.8	TBA	TBA	TBA	7	0	Avanti SDM 430	TBA
6.6	TBA	TBA	TBA	7	0	Avanti SDM 430	TBA
7.4	TBA	TBA	TBA	7	3	Avanti SDM 460	TBA
8.2	TBA	TBA	TBA	8	3	Avanti SDM 490	TBA
9.0	TBA	TBA	TBA	8	3	Avanti SDM 490	TBA

- The sail body consists of a custom Aramid fiber loadpath membrane weighing in 15% under anything else in the marketplace.
- Genuine carbon tube battens in key areas provide a rock-solid skeleton.
- Teijin 8083 luff sleeve material gives excellent durability and repels water.
- Lightweight overlapping batten pockets yield rig and performance symmetry.
- Patent pending 'C-Clip' clew closure system makes rigging a snap.
- R.1 HeadCap.
- Super lightweight 'Nylatron' tack pulley wheels save weight and allow easy downhauling.
- Graduated Batten layout tailored to sail sizing.
- Spectra Webbing.
- MicroLight Batten Tensioners.
- Anti-Abrasion Silicon Bumpers.
- Big sizes supported by twin Arc Cams for maximum drive and stability.



# MASTS

To make a decent windsurfing mast is relatively easy. To make a great windsurfing mast is extremely difficult. For 2013, Avanti expands on its mast range to include a performance freeride mast, and a cutting edge wave RDM to augment our elite TowPro C-100 offering.



LENGTH	TYPE	MATERIAL	IMCS	WEIGHT [KG]
400	RDM	100% Towpreg Carbon	19	1.45
430	SDM	100% Towpreg Carbon	21	1.45
460	SDM	100% Towpreg Carbon	25	1.65
490	SDM	100% Towpreg Carbon	30	1.80
530	SDM	100% Towpreg Carbon	34	2.15

- Manufactured from aerospace grade raw carbon "towpreg."
- Proprietary CAM winding system.
- 20%+ stronger than any mast on the market.
- 10%+ lighter than any current production racing mast on the market.
- Built robotically, eliminating any chance of human error in production.
- Fine-tuned fiber ratios.
- An incredibly crisp and lively reflex response.



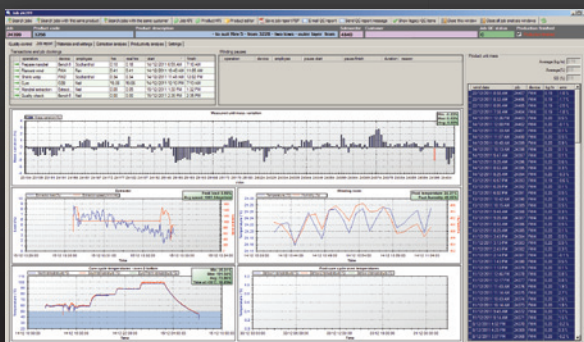
LENGTH	TYPE	MATERIAL	IMCS	WEIGHT [KG]
430	SDM	95% Prepreg Carbon	21	TBA
460	SDM	95% Prepreg Carbon	25	TBA
490	SDM	95% Prepreg Carbon	30	TBA
520	SDM	95% Prepreg Carbon	34	TBA

- Top quality roll wrapped pre-preg carbon mast.
- Unique toughened epoxy resin system gives tremendous durability.
- Fine-tuned fiber ratios.
- An incredibly crisp and lively reflex response.
- Ideal race and performance freeride mast.

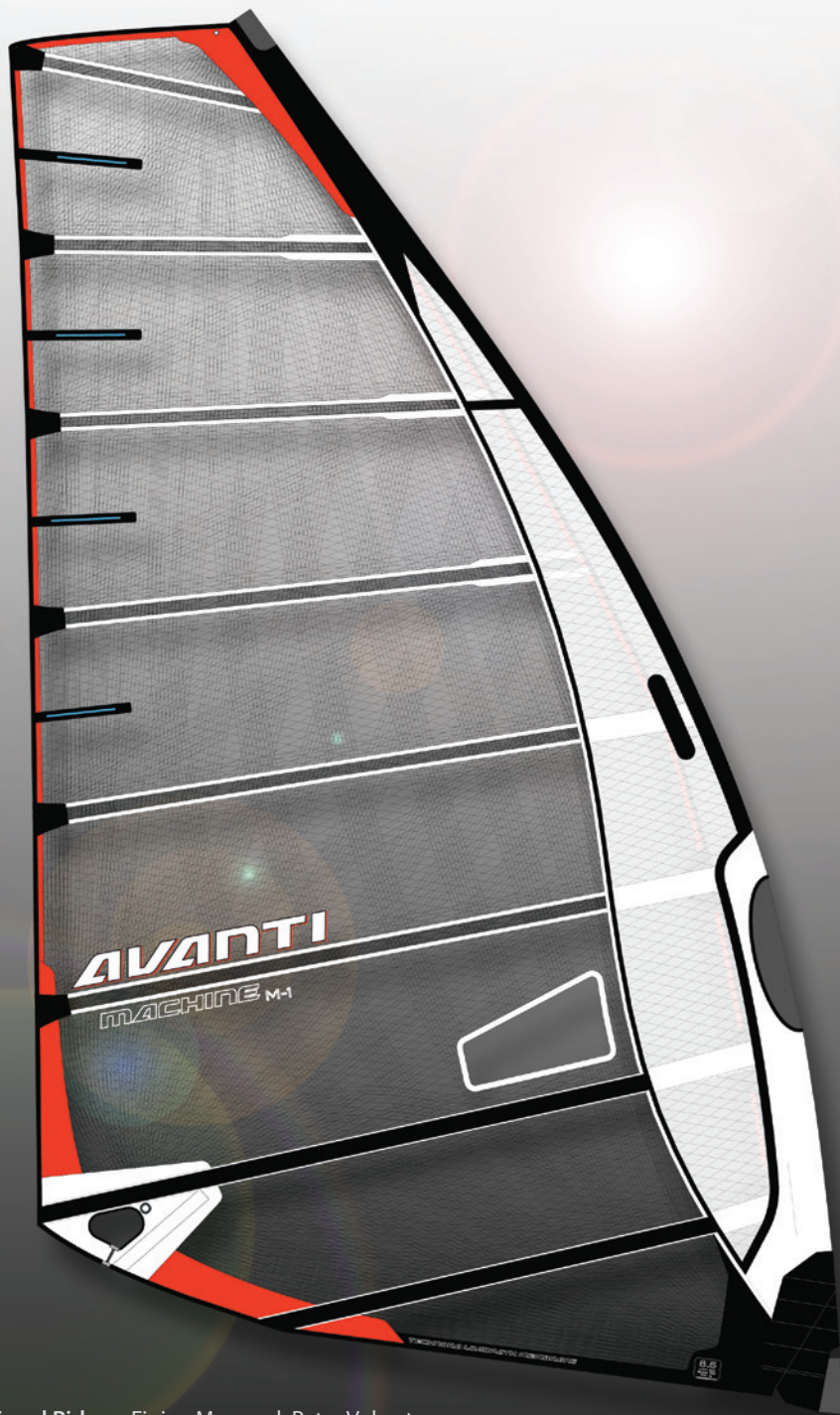


LENGTH	TYPE	MATERIAL	IMCS	WEIGHT [KG]
370	RDM	100% Prepreg Carbon	17	TBA
400	RDM	100% Prepreg Carbon	19	TBA
430	RDM	100% Prepreg Carbon	21	TBA

- Top quality roll wrapped pre-preg carbon mast.
- Unique toughened epoxy resin system gives tremendous durability.
- Fine-tuned fiber ratios.
- An incredibly crisp and lively reflex response.
- Ideal wave and freestyle performance.







RACE

**MACHINE** M-1

5.5 - 6.1 - 6.9 - 7.7 - 8.5 - 9.4 - 10.0 - 11.0 - 12.0

The **Machine M-1** is the result of a relentless eleven-month development cycle of prototyping and testing, both in the lab, and on the water. It incorporates sophisticated design elements never before properly implemented in windsurfing. Every brand in existence today will claim that they have the "best" high-performance racing sail on the market. All bias aside, the performance of this new weapon from Avanti is unmistakable.

#### Welcome to the Machine...

- The sail body consists of a custom 100% Technora fiber loadpath membrane weighing in 15% under anything else in the marketplace.
- Mid-body fiber is spaced wide, while at the corners Technora DPI increases to match natural load concentrations.
- 7 real carbon tube battens (6.9-10.0), 6 carbon tube battens (5.5-6.1) provide a rock-solid skeleton.
- Proprietary lamination process utilizes computer laid fiber and the most high-tech adhesive available.
- Coming in four sizes, brand new Avanti Arc Cams feature extra round sidewalls that add camber at the critical leading edge.
- Premium Avanti CZL luff sleeve material gives exactly the right elasticity, durability and response.
- Lightweight overlapping batten pockets yield rig and performance symmetry.
- Patent pending 'C-Clip' clew closure system makes rigging a snap.
- A full range of new plastics, including batten tensioners, headcaps and cam shims all purpose built.
- Super lightweight 'Nylatron' tack pulley wheels save weight and allow easy downhauling.

SIZE	LUFF	BOOM	BASE	BATTENS	CAMS	MAST CHOICE	WEIGHT [kg]
5.5	415	166	17	7	4	Avanti RDM 400	4.15
6.1	434	175	6	7	4	Avanti SDM 430	4.30
6.9	455	192	27	8	4	Avanti SDM 430	4.95
7.7	476	205	18	8	4	Avanti SDM 460	5.10
8.5	497	220	9	8	4	Avanti SDM 490	5.40
9.4	522	235	34	8	5	Avanti SDM 490	5.75
10.0	533	241	5	8	5	Avanti SDM 530	6.10
11.0 FW			TBA			Avanti SDM 530	TBA
12.0 FW			TBA			Avanti SDM 530	TBA

International Riders: Finian Maynard, Peter Volwater  
 1st Place, Ledge to Lancelin  
 1st Place, PWA, Fuerteventura Slalom



*"Throughout my career, I've had the privilege of trying and competing on many different racing rigs. The Machine M-1 is the best of the best! The highly developed membrane delivers consistent, stable, usable power throughout a huge wind-range. Unmatched in blistering top speed, fully torqued low-end, and quick acceleration, the M-1 is truly a machine. Add the carbon battens, and insanely low build weight, and you have something exceptional."*

**2012 Fuerteventura PWA World Cup Champion**  
- Finian Maynard





# INSPIRED PERFORMANCE



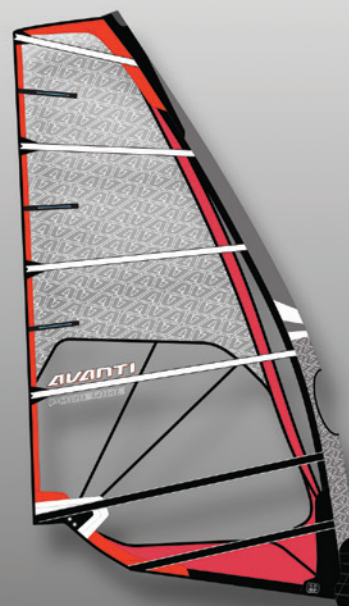
FENIX  
NEW WAVE  
3.6, 4.0, 4.4, 4.8, 5.2, 5.6



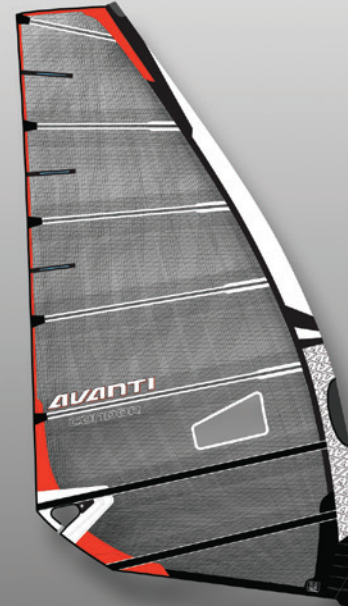
VIPER  
WORLD WAVE  
4.0, 4.5, 5.0, 5.5, 6.0



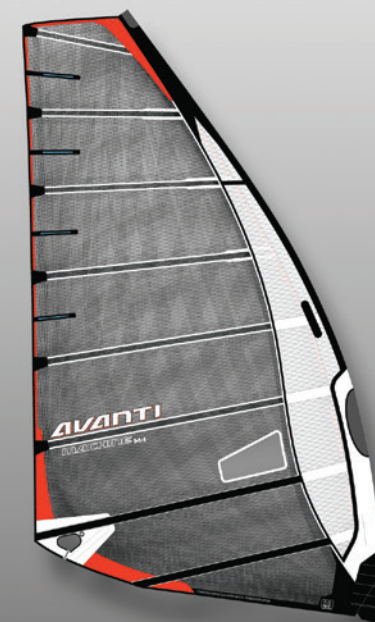
ECHO ME  
FREESTYLE  
4.4, 4.8, 5.2, 5.6, 6.2



POWERIDE  
CAM-LESS FREERIDE  
5.8, 6.6, 7.4, 8.2, 9.0



CONDOR  
FREERACE  
5.8, 6.6, 7.4, 8.2, 9.0



MACHINE M-1  
SLALOM  
5.5, 6.1, 6.9, 7.7, 8.5, 9.4, 10.0  
FORMULA  
11.0, 12.0

# AVANTI

