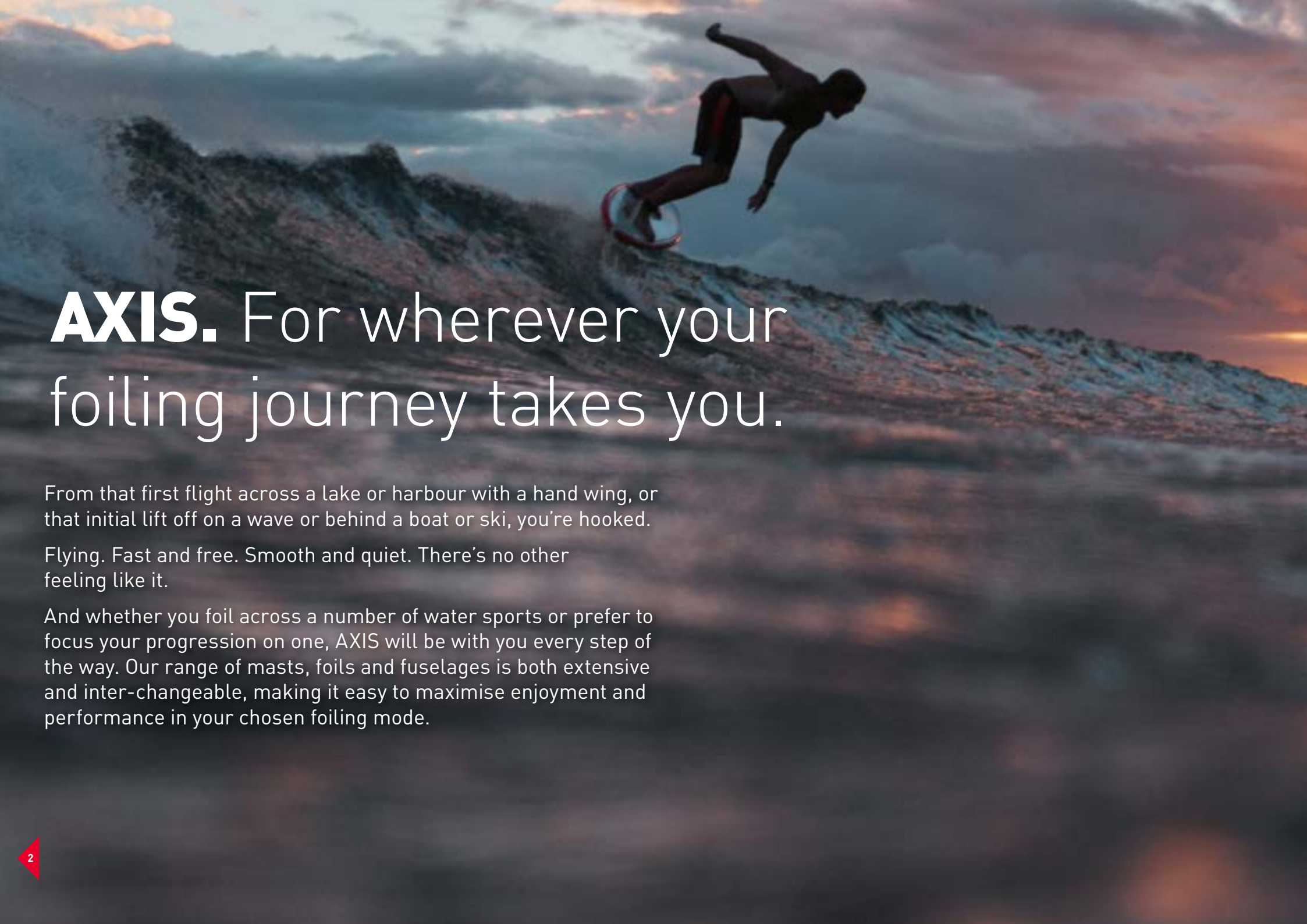

Foil your way.



AXIS. For wherever your foiling journey takes you.

From that first flight across a lake or harbour with a hand wing, or that initial lift off on a wave or behind a boat or ski, you're hooked.

Flying. Fast and free. Smooth and quiet. There's no other feeling like it.

And whether you foil across a number of water sports or prefer to focus your progression on one, AXIS will be with you every step of the way. Our range of masts, foils and fuselages is both extensive and inter-changeable, making it easy to maximise enjoyment and performance in your chosen foiling mode.



Inspired by a global community.

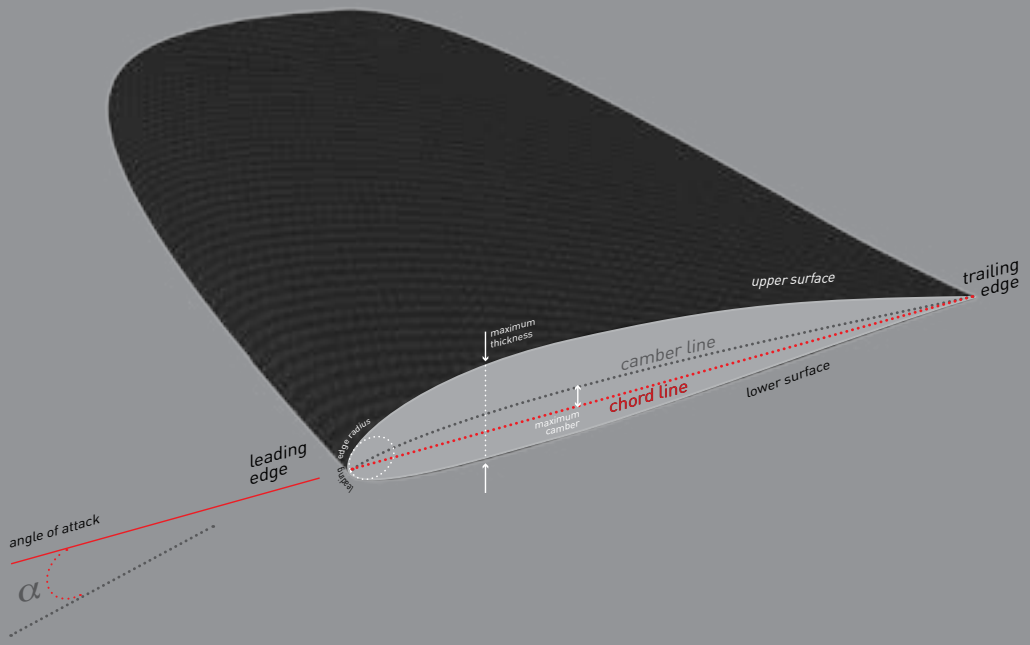
In every corner of the globe, passionate foil enthusiasts have discovered AXIS. They tell us our advanced foil design, precision engineering and stiffness of each connection point has enabled them to take their foiling to the next level, and the next.

While we're proud to have helped fuel these trail blazers' passion for foiling, now they inspire us. Every day the feedback and ideas flow in from wake thieves in America's lake country, prone foilers in Western Australia, SUP foilers in California or wingers in the islands and canals of Europe. These diverse inputs ensure our design and innovation process never stops or narrows in focus. After all, we want as many people in as many places as possible, to share our passion of foiling.

Experience and innovation.

Our New Zealand based design team of engineers, marine architects, foil scientists and board designers is led by Adrian Roper. Internationally renowned windsurf, kitesurf and now foil innovator with more than 40 years of design and manufacturing experience. He oversees an agile process of feedback, computer aided design and testing that sees new concepts and range additions taken to the beach virtually every week. After initial validation by the design group, the new design is then distributed among a wider rider team led by AXIS' boss, Evan Mavridoglou, for feedback. And not just advance level riders either, because at the heart of the AXIS design philosophy, is that our equipment must be easy to ride as well as high performance. By the time an AXIS product reaches your retail store, you know it will be good.

The basics of foil design



This guide is designed to help explain the key variables in hydrofoil design. It will also help you better understand the design specifications of the AXIS range on the following pages.

Span: The length of the foil from wing-tip to wing-tip.

Chord: The width of the foil (90 degrees to the span). There is maximum chord and mean average chord. Maximum chord is the widest part of the chord normally at the middle of the wing, the mean average chord is the average chord over the entire wing. Span divided by mean average chord gives you the aspect ratio.



Thickness: How thick the foil is, normally expressed as a percentage of the chord.

Foil section: This refers to actual cross sectional shape and curve of the foil, i.e. is the front portion blunt or sharp? Where is the point of maximum thickness? This will have a huge bearing on the lift the foil produces and the speed range it will perform in without 'stalling' (when the water flow dis-engages from the foil surface causing you to crash back down).

Camber: Camber is a key element of the foil section. Unlike centre fins on surfboards, the cross section of hydrofoils is not symmetrical – the resulting pressure difference as water flows around the foil is what creates upward lift. The degree of this asymmetry is called the camber. The more camber, the more lift a foil will generate. However camber also increases drag.

Area: The total surface area of the foil. While the industry has made area the key variable with which foils are compared, for us it is no more important than the other design characteristics featured above. The performance of a hydrofoil is determined by how ALL these variables combine together. For example, it is totally possible to have a foil with less area than another to produce greater lift if the thickness and camber are greater.

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SURGE SURF WING

The AXIS Surge reclaims the raw, connected feel of real surfing. The Surge reinvents the category, shattering the old trade-offs that held surf foiling back.

Drop in and feel it ignite. Load up your back foot and feel the drive. Surge answers instantly, knifing through the pocket with a shortboard attitude. The rail to rail transition is smooth and predictable, lay it over and release your wingtips with confidence. Surge boasts effortless pumping, green-lighting you to link sections and connect multiple waves like never before. It's fluid, locked-in, and alive under your feet.

The AXIS Surge's range is flat-out staggering, arming you with low-end torque that turns mushy, knee-high slop into a foil playground, letting you stall deep in the pocket, hit whitewater, and easily pump back to the lineup for another lap. When you wind it up, you've got explosive speed and unshakable control giving you confidence to send it over the ledge on those outer reef freight trains.

Wing foilers, Para-wingers and kite foilers, level up with Surge.

This is the freestyle and wave weapon you've been begging for. Whether you're throwing it around in freeride mode or chasing bombs on the wing with the throttle pinned, Surge unleashes buttery smooth rail transitions, explosive pop and a locked-in feel that screams "SEND IT!"

Para-wingers, LET'S GO! Get ready to appreciate the huge range offered by the Surge, its signature low end grunt allows early flight and easy planing, and top end efficiency enabling those big upwind tacks and downwind voyages.

Pair it with our recently released **Surf Skinny Rears** for the perfectly balanced blend of speed, power and flow.

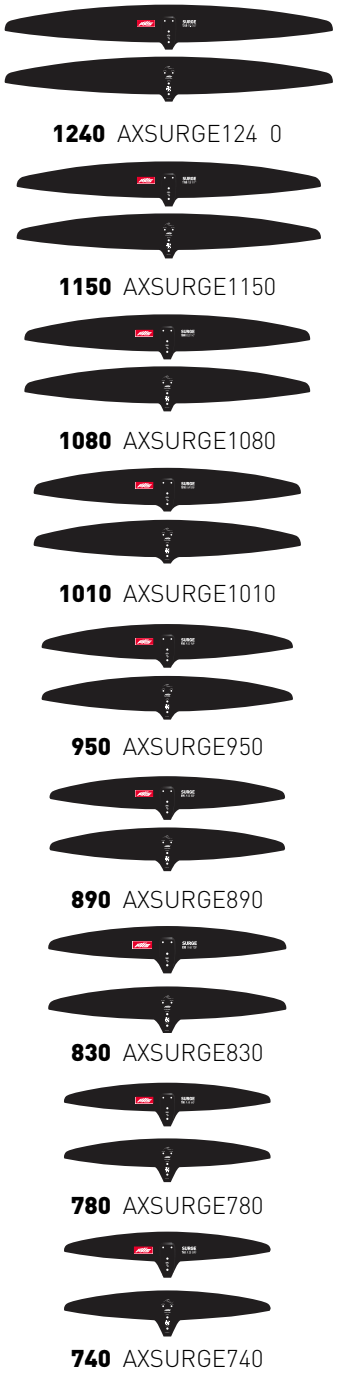
.Angle of attack to fuselage
Up 1.00°

stability	●●●●●●●●
turning	●●●●●●●●●
speed	●●●●●●●●●
lift	●●●●●●●●
glide	●●●●●●●

SIZE	mm (in)	mm	mm	cm² (in²)	cm³ (in³)	RATIO
1240	1,240 (48.8)	142	108.0	1,340 (207.7)	1,247 (76.1)	11.48
1150	1,150 (45.3)	138	104.1	1,199 (185.8)	1,077 (65.7)	11.04
1080	1,080 (42.5)	140	105.6	1,142 (177.0)	1,041 (63.5)	10.22
1010	1,010 (39.8)	141	106.4	1,076 (166.8)	988 (60.3)	9.49
950	950 (37.4)	134	99.8	949 (147.1)	827 (50.5)	9.52
890	890 (35.0)	125	93.7	835 (129.4)	680 (41.5)	9.50
830	830 (32.7)	116	87.6	728 (112.8)	556 (33.9)	9.48
780	780 (30.7)	109	82.3	643 (99.7)	471 (28.7)	9.48
740	740 (29.1)	112	79.6	590 (91.5)	423 (25.8)	9.30

All Surge foils

Black Fuselage



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TEMPO

1090 :16 745[g] 1020 :16 650[g] 960 :16 575[g] 920 :16 530[g] 890 :16 495[g]



The **Tempo** foil range is not a simple upgrade - it's a revolution and a brand-new approach to foil riding. As we push the boundaries of higher aspect ratios and lower volumes, we've discovered that greater hydrodynamic efficiency is required through the entire system. AXIS has designed **Tempo** from the ground-up alongside an innovative titanium fuselage that's both easy to fit and extremely rigid in construction and connection. We call it **Ti Link**.

Designed for riders who demand more than performance, this is the strongest connecting system we've ever built. It's stiffer, sleeker and faster – and fully compatible with the Aluminium, **Power Carbon** and **Ultra Pro** masts.

At its core, **Tempo** integrates Ultra-High Modulus carbon fibre with the aerospace-grade titanium of **Ti Link** to achieve a balance of ultra-rigidity and lightweight responsiveness. The result is a more intuitive system that feels smoother with less drag. It gives riders new ways to experience the seascape, while discovering new lines that previously didn't exist.

Don't let the numbers scare you – the **Tempo** range is surprisingly accessible despite the relatively low surface areas. It's suited to intermediate foilers seeking progression, as well as advanced riders who demand the extraordinary. For those ready to push harder, fly faster and redefine the limits of their sport, **Tempo** is the ultimate weapon.

Tempo foils utilise the Ti Link system, which features four dedicated rear wings in the **Link Skinny** range.

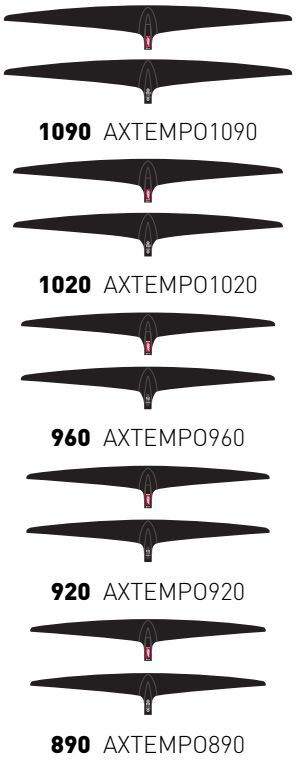
Angle of attack to fuselage
Up 1.00°

stability	●●●●●●●●●
turning	●●●●●●●●
speed	●●●●●●●●●●
lift	●●●●●●●●●●●
glide	●●●●●●●●●●

SIZE	SPAN mm (in)	CHORD mm	MEAN CHORD mm	AREA cm² (in²)	VOLUME cm³ (in³)	ASPECT RATIO
1090	1,090 (42.9)	117.5	68.4	746 (115.6)	480 (29.3)	15.93
1020	1,020 (40.2)	110	64.0	653 (101.2)	394 (24.0)	15.93
960	960 (37.8)	102	60.2	578 (89.6)	261 (15.9)	15.94
920	920 (36.2)	95	57.4	528 (81.8)	170 (10.4)	16.03
890	890 (35.0)	92	55.6	495 (76.8)	–	16.00



All TEMPO foils
Ti Link fuselage



1090 AXTEMPO1090
1020 AXTEMPO1020
960 AXTEMPO960
920 AXTEMPO920
890 AXTEMPO890

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FIREBALL PERFORMANCE HIGH AR

The key to the unique performance of the AXIS **Fireball** foil range is its all-new high-lift/low-drag foil section, with outlines featuring aspect ratio 13 and ULTRA high modulus carbon construction.

Fireball front wings are high performance foils that are very easy to use, with great stability across a broad (and higher) speed range.

ULTRA high modulus carbon construction, these thin, skinny, super high-aspect foils demand the stiffest construction, allowing you to extract every ounce of performance out of the foil section from tip to tip.

Aspect Ratio (AR) 13 - super high aspect design - promotes reduced drag, allowing you to pump faster and with more forward projection than ever before, you can run with swells, go up and over easier and chase down bumps in front of you.

Our high-lift, low-drag **Fireballs** have incredible lift and carry, simply refusing to stall where other foils would have dropped out long ago. This unique lift and carry design allows you to get flying earlier, and with less effort. Dreaded touchdowns can now be pumped out of with relative ease.

Overall Increased efficiency means advanced riders will be able to reduce foil area substantially, so you can conserve energy gain in speed and range while completing longer runs. You can choose a slightly reduced span, or ride approximately 200cm² less surface area than previously with the Fireball range.

The **Fireball's** foil section is very pitch stable which allows riders to drop down one or two **Skinny** rear wing sizes. This further increases speed and reduces drag.

Fireball foils are ideally matched with our **Black Advance+** fuselage and **Skinny** rear wing ranges.

Angle of attack to fuselage
Up 1.00°

stability	●●●●●●●●●
turning	●●●●●●●●
speed	●●●●●●●●●●
lift	●●●●●●●●●●●
glide	●●●●●●●●●●

SIZE	SPAN mm (in)	CHORD mm	MEAN CHORD mm	AREA cm² (in²)	VOLUME cm³ (in³)	ASPECT RATIO
1750	1,750 (68.9)	150	87.0	1,525 (236.4)	1,211 (73.9)	20.12
1500	1,500 (59.1)	127.9	87.5	1,313 (203.5)	1,040 (63.4)	17.15
1350	1,350 (53.1)	132	96.9	1,309 (202.9)	1,112 (67.8)	13.93
1250	1,250 (49.2)	123	90.5	1,133 (175.5)	898 (54.8)	13.81
1160	1,160 (45.7)	117	85.8	996 (154.4)	769 (46.9)	13.52
1070	1,070 (42.1)	112	81.9	877 (135.9)	649 (39.6)	13.07
1000	1,000 (39.4)	106	77.2	773 (119.8)	541 (33.0)	12.95
940	940 (37.0)	100	73.2	689 (106.8)	456 (27.8)	12.84
880	880 (34.6)	93	68.6	604 (93.6)	373 (22.8)	12.82

All Fireball foils

Black Fuselage



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ART V2 AXIS RESEARCH TEAM

The AXIS **ART v2** is a brand-new foil series that sits between the AXIS **Spitfire** and **ART PRO** wing ranges, offering the perfect blend of the **Spitfire's** powerful smooth carving, and the **ART PRO's** low-drag glide and speed. The **ART v2** is a High Aspect wing sporting an Aspect Ratio of ~10 across the series, fitting perfectly between the **Spitfire** (average 7.5 AR) and the **ART PRO** (12+ AR).

Wingers, whether you are free riding, wave riding or just chasing the ultimate in efficient cruising, you will love the speed, balance, stability, turning and carving of the **ART v2** in all wind and water conditions. And if you are into freestyling, the **ART v2** is reinforced with Ultra High Modulus carbon for extra rigidity and strength.

Sharing the **Spitfire's** multitalented DNA, the **ART v2** is also the wing that will give wing foilers the confidence to use it in other foiling disciplines such as prone, downwind, SUP, FoilDrive (FD), windsurf, wake or kite. It's a front wing that excels at winging, and also holds its own in every other foiling discipline.Notes from our design team:

The AXIS **ART v2** is a foil that retains great glide and pump due to its span (like an **ART PRO**), while the reduced area in the tips allows us to retain the looser predictable turning characteristics of a much smaller wing. (similar to the **Spitfire**)

We achieved that by using a very tapered outline, we reduced the second moment of area for roll, and worked to achieve a perfectly elliptical span-wise lift distribution.

We have strategically reinforced the **ART v2** with military-grade Ultra High Modulus carbon in addition to our existing layups creating a stronger connection between the wing and the fuselage, which provides quicker response, better performance and additional strength.

SIZE	SPAN mm (in)	CHORD mm	MEAN CHORD mm	AREA cm² (in²)	VOLUME cm³ (in³)	ASPECT RATIO
1099	1,100 (43.3)	155	107.0	1,197 (185.5)	1,016 (62.0)	10.28
999	1,000 (39.4)	135	101.0	1,026 (159.0)	844 (51.5)	9.90
939	940 (37.0)	126	94.0	900 (139.5)	687 (41.9)	10.00
879	880 (34.6)	118	88.2	790 (122.5)	573 (35.0)	9.98
819	820 (32.3)	100	82.0	674 (104.5)	469 (28.6)	9.98

ART V2 foils are ideally matched with our **Progressive** or **Skinny** rear wing ranges and our **Black Advance +** fuselage range.

Angle of attack to fuselage
Up 1.00°

stability	●●●●●●●
turning	●●●●●●●●●●●●
speed	●●●●●●●●●●●●
lift	●●●●●●
glide	●●●●●●●●●●●

All ARTV2 foils

Black Fuselage



1099 AXARTV21099



999 AXARTV2999



939 AXARTV2939



879 AXARTV2879



819 AXARTV2819

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SPITFIRE

Imagine a dedicated surf foiling wing, that lets you foil waves like a surfer would. If you're anything like us, you've been dreaming of an effortless turning wing, that inspires confidence when dropping in, that has a gentle, predictable easy lift up onto foil.

A foil that not only handles breaches but encourages them. No wave is the same, sometimes you need a turn of speed, and on another you need to slow right down but stay on foil. A wing you can just forget about and get on with the business of enjoying yourself. Of course, that wing has to be capable of pumping you back out to do it all again and again.

Meet the AXIS **Spitfire**. You'll recognise it by its distinctive elliptical outline, straight median line and lack of aggressive turndown through the tips. Moderate chord lengths, that taper smoothly from the centre to the tips, encourage smooth, predictable but precise turning. Reduced foil thickness for enhanced top end to compliment the greater chords providing easy low end. Many of these attributes are shared by the ART**PRO** Range of wings, and in fact much of what we learned in the development of that line fed into the **Spitfire**'s make-up.

Through the development process, we put the Spitfire through its paces. The smaller sizes are fast with explosive turning. The larger sizes are great for smaller spots and larger riders. The **Spitfires** are versatile front wings, able to ride waves or flat water across prone, SUP, winging, wake, downwind, lake pumping and kite foiling disciplines. They do it all.

Spitfire foils are ideally matched with our **Black Advance** fuselage and **Progressive** or **Skinny** rear wing ranges.

Angle of attack to fuselage
Up 1.00°

stability	●●●●●●●●
turning	●●●●●●●●●●
speed	●●●●●●●●●●
lift	●●●●●●●●
glide	●●●●●●●

SIZE	SPAN mm (in)	CHORD mm	MEAN CHORD mm	AREA cm² (in²)	VOLUME cm³ (in³)	ASPECT RATIO
1180	1,180 (46.5)	165	129.2	1,554 (240.9)	1,637 (99.9)	9.13
1100	1,100 (43.3)	160	127.1	1,423 (220.6)	1,406 (85.8)	8.66
1030	1,030 (40.6)	157	124.8	1,308 (202.7)	1,270 (77.5)	8.26
960	960 (37.8)	154	122.4	1,196 (185.4)	1,142 (69.7)	7.84
900	900 (35.4)	151	120.0	1,080 (167.4)	1,032 (63.0)	7.50
840	840 (33.1)	148	117.6	1,006 (155.9)	928 (56.6)	7.14
780	780 (30.7)	145	113.6	902 (139.8)	811 (49.5)	6.87
720	720 (28.3)	142	111.2	815 (126.3)	720 (43.9)	6.47
670	670 (26.4)	135	105.7	721 (111.8)	589 (35.9)	6.34
620	620 (24.4)	127	101.3	628 (97.3)	484 (29.5)	6.12



1180 AXSPITFIRE1180



1100 AXSPITFIRE1100



1030 AXSPITFIRE1030



960 AXSPITFIRE960



900 AXSPITFIRE900



840 AXSPITFIRE840



780 AXSPITFIRE780



720 AXSPITFIRE720



670 AXSPITFIRE670



620 AXSPITFIRE620

All Spitfire foils

Black Fuselage

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PNG V2 PUMP AND GLIDE

The completely reimagined **PNG 1300v2** now runs on our Black fuselage series (we recommend our latest Black Advance+ range).

The AXIS **PNG 1300v2** boasts low stall speeds, lower drag, better acceleration, better turning and a significantly higher top-end speed – thanks to its finely tuned High Camber (High-lift) / Low-drag foil section.

The **1300 v2** has reduced surface area (1632 sq cm) compared to the previous **PNG 1300** (1712 sq cm), but with the addition of its new foil section, it achieves the same capacity for early lift.

Vastly improved turning and a balanced lift distribution ensure a smooth, stable and comfortable ride, with predictable pitch control that makes navigating between bumps and pumping a breeze.

This stability is crucial for light wind or novice downwinders, offering a more agile manoeuvrable experience than the original **PNG 1300**. We've also extended its glide range, for unlocking new distances and manoeuvres when pumping flat water. You'll be amazed at how much further you can glide between pumps without losing speed or height.

All these features make the AXIS **PNG 1300v2** an amazing addition for dock starters, of all levels. The lower drag, improved glide and reduced stall speed are fantastic for those who are progressing and have found that the bigger slow wings are just not much fun anymore.

Use the **PNG 1300v2** for SUP/ Prone surfing when in smaller or lower energy surf. The amount of lift that the wing creates to get you moving and stay up on micro-waves is astounding.

And let's not forget that the AXIS **PNG 1300v2** transforms what's possible for some of the lightest winds while winging. The new AXIS **PNG 1300v2** will get you flying before others and start enjoying again ultra light wind winging.

PNG V2 foils are ideally matched with our **Progressive** or **Skinny** rear wing ranges.

Angle of attack to fuselage
Up 1.00°

stability	●●●●●●●●●●●
turning	●●●●●●●
speed	●●●●●●●●
lift	●●●●●●●●●●●●
glide	●●●●●●●●●●●

SIZE	SPAN mm (in)	CHORD mm	MEAN CHORD mm	AREA cm^2 (in^2)	VOLUME cm^3 (in^3)	ASPECT RATIO
1400	1,400 (55.1)	169	127.4	1,786 (276.8)	1,954 (119.2)	10.99
1300	1,300 (51.2)	168	125.5	1,632 (253.0)	1,773 (108.2)	10.36
1200	1,200 (47.2)	195	150.1	1,803 (279.5)	2,294 (140.0)	8.00

All PNGv2 foils

Black Fuselage



1400 AXPNGV21400



1300 AXPNGV21300



1200 AXPNGV21200





SES Packages

SUPER EASY START

As the name suggests, our new **SES** complete package is super easy to get started on, and it's even easier on your wallet with its innovative core and fibreglass front wing construction.

A new concept from AXIS, the **SES** package is perfect for cost conscious learners, schools or riders who want one simple setup that works. And since it's AXIS, high quality of manufacturing, smart engineering and modularity are inherited in the **SES** packages' DNA.

The **SES** package is no slouch either. Drawing on the proven performance and easy turning of our **BSC** range, the **SES** has a slightly reduced aspect ratio for even easier and smoother lift. The **SES** wings have rounder tips for safety and ease of use.

Each package comes with its own front wing size: The **1040** for riders over 80kgs and the **940** for lighter riders, and the **840** for very light riders and children. Completing the **SES** package is our famously stiff 75cm aluminium 19mm mast and mast base, a stainless steel bolt and tool pack. Our 19mm doodad for superior mast to fuselage connection.

SES packages ship with matched rear wings, **SES 1040** and **940** ship with the **440/90** and the **Red Standard** fuselage, and the **SES840** are equipped with the **400/90** and the **Red Short fuselage**. The packages

Of course you can upgrade to a longer mast or any AXIS foil components, compatible with the AXIS red fuselage and 19mm mast, as your skills progress.

SES is particularly suited for wing foiling but also great for Wake, SUP, plus Prone surfing and Pumping (with the smaller size front wing).

Angle of attack to fuselage
Up 2.00°

stability	●●●●●●●●●●
turning	●●●●●●●●●
speed	●●●●
lift	●●●●●●●●●
glide	●●●●●●●●

Fuselage:

Red Standard or Short

FRONT	WINGSPAN mm (in)	CHORD mm (in)	ACTUAL AREA cm² (in²)	PROJECTED AREA cm² (in²)	VOLUME cm³ (in³)	ASPECT RATIO	PRODUCT CODE
1040	1,040 (40.9)	220 (8.7)	1,957 (303.4)	1,864 (288.9)	3,020 (184.3)	5.80	AX22SES1040
940	940 (37.0)	210 (8.3)	1,668 (258.6)	1,608 (249.2)	2,380 (145.2)	5.50	AX22SES940
840	840 (33.1)	190 (7.5)	1,334 (206.8)	1,300 (201.5)	1,673 (102.1)	5.43	AX22SES840

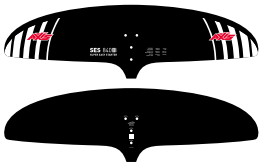
REAR	WINGSPAN mm (in)	CHORD mm (in)	ACTUAL AREA cm² (in²)	PROJECTED AREA cm² (in²)	VOLUME cm³ (in³)	ASPECT RATIO	PRODUCT CODE
440/90	440 (17.3)	90 (3.5)	319 (49.4)	304 (47.1)	192.8 (11.8)	6.37	AX22RWING-440/90
400/90	400 (15.7)	90 (3.5)	292 (45.2)	277 (42.9)	168.4 (10.3)	5.78	AX22RWING-400/90



1040 AX22SES1040



940 AX22SES940



840 AX22SES840



440/90 AX22RWING-440/90



400/90 AX22RWING-400/90



Red Standard or Short
AX22RFUSLAGE765 or 680



AX22BASEPLATE19M



AX22MAST19M75



AX22SSCRSET

Rear Wings

Our research team is constantly exploring the subtleties of rear wing design and the difference even small changes can make to performance and handling.





22 Ti Titanium LINK

SKINNY Ti LINK 360 45 10.2

SKINNY Ti LINK 360 40 11.1

SKINNY Ti LINK 360 35 12.5

SKINNY Ti LINK 360 30 14.2

SKINNY Ti LINK 360 25 16.6

Ti LINK SURF SKINNY 300 45 AR 8.36

SKINNY Ti LINK

SIZE	SPAN mm (in)	CHORD mm	MEAN CHORD mm	AREA cm² (in²)	VOLUME cm³ (in³)	ASPECT RATIO
360/45	360 (14.2)	45	35.3	127 (19.7)	35 (2.1)	10.20
360/40	360 (14.2)	40	32.5	117 (18.1)	31 (1.9)	11.08
360/35	360 (14.2)	35	28.9	104 (16.1)	26 (1.6)	12.46
360/30	360 (14.2)	30	25.3	91 (14.1)	21 (1.3)	14.24
360/25	360 (14.2)	25	21.7	78 (12.1)	15 (0.9)	16.62
300/22.5	300 (11.8)	22.5	19.6	59 (9.1)	12 (0.8)	15.33

PROGRESSIVE



475/68 AX22RWING-475/68



350/63 AX22RWING-350/63



450/67 AX22RWING-450/67



325/62 AX22RWING-325/62



425/66 AX22RWING-425/66



300/60 AX22RWING-300/61



400/65 AX22RWING-400/65



275/58 AX22RWING-275/58



375/64 AX22RWING-375/64



250/56 AX22RWING-250/56

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SKINNY



365/55 AXSKINNY-365/55



358/35 AXSKINNY-358/35



362/50 AXSKINNY-362/50



358/30 AXSKINNY-358/30



360/45 AXSKINNY-360/45



358/25 AXSKINNY-358/25



359/40 AXSKINNY-359/40



250/20 AXSKINNY-250/20

SURF SKINNY



340/50 AXSKINNY-340/50



320/48 AXSKINNY-320/48



300/45 AXSKINNY-300/45



280/43 AXSKINNY-280/43

PUMP



460/60 AX22RWING-460/60

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PROGRESSIVE

SIZE	SPAN mm (in)	CHORD mm	AREA cm² (in²)	VOLUME cm³ (in³)	ASPECT RATIO
475/68	475 (18.7)	68	269 (41.7)	111 (6.8)	8.48
450/67	450 (17.7)	67	251 (38.9)	102 (6.2)	8.15
425/66	425 (16.7)	66	228 (35.3)	91 (5.5)	8.02
400/65	400 (15.7)	65	211 (32.7)	83 (5.1)	7.66
375/64	375 (14.8)	64	195 (30.2)	75 (4.6)	7.30
350/63	350 (13.8)	63	179 (27.8)	68 (4.2)	6.92
325/62	325 (12.8)	62	168 (26.1)	63 (3.9)	6.36
300/60	300 (11.8)	60	150 (23.3)	55 (3.3)	6.07
275/58	275 (10.8)	58	133 (20.6)	47 (2.9)	5.76
250/56	250 (9.8)	56	117 (18.1)	40 (2.4)	5.42

SKINNY

SIZE	SPAN mm (in)	CHORD mm	AREA cm² (in²)	VOLUME cm³ (in³)	ASPECT RATIO
365/55	365 (14.4)	55	168 (26.1)	58 (3.5)	8.06
362/50	362 (14.3)	50	152 (23.5)	47 (2.8)	8.79
360/45	360 (14.2)	45	136 (21.1)	38 (2.3)	9.71
359/40	359 (14.1)	40	121 (18.7)	32 (2.0)	10.90
358/35	358 (14.1)	35	106 (16.4)	26 (1.6)	12.42
358/30	358 (14.1)	30	–	–	–
300/25	300 (11.8)	25	–	–	–
250/20	250 (9.8)	20	47 (7.2)	8 (0.5)	13.42

SURF SKINNY

SIZE	SPAN mm (in)	CHORD mm	AREA cm² (in²)	VOLUME cm³ (in³)	ASPECT RATIO
340/50	340 (13.4)	50	136 (21.0)	41 (2.5)	8.54
320/48	320 (12.6)	48	122 (18.9)	35 (2.2)	8.40
300/45	300 (11.8)	45	108 (16.7)	30 (1.8)	8.36
280/43	280 (11.0)	43	96 (14.8)	25 (1.5)	8.20

Masts... Aluminium or Carbon? **We love both.**



Recent development in foil design and performance (high aspect ratios and broader spans) demand stiffer, more direct and positive connections than current masts deliver.

Bend (lateral distortion) and twist/torsion (rotation around the mast's length or torque axis) compromise connection, control, speed and ultimately the hydrodynamic efficiency of your hydrofoil's potential. The stiffer the mast, the better the connection to the foil system and more importantly the untapped potential of high-performance foil designs can be fully realised.

AXIS Power Carbon - High Modulus addresses these challenges, delivering bend resistance that is superior to the stiffest Alloy masts combined with next-level torque axis resistance. (Surpassing the stiffness of our 19mm Alloy mast which is the market stiffness benchmark)

The result is a positive connected feel, direct drive, immediate feedback and ultimate control. High aspect foils perform as they should, feel and control enter an entirely new realm.

The new High Modulus Carbon fibre used in our mast layup is considerably stiffer and stronger than the regular carbon fibre used in conventional constructions. Innovative, considered and balanced placement of materials in our proprietary production process paired with rigorous testing has delivered a breathtaking performance leap.

Opting for a one-piece design, we avoided the flow/drag and jointing issues associated with multi-part mast constructions.

AXIS Power Carbon Mast works perfectly with our complete range of foils, we believe every foiling discipline will benefit from unparalleled bend and twist resistance built into our new **Power Carbon** masts.

Available in three models, the **Power Carbon** and **Power Carbon - High Modulus** which goes even further to provide additional strength and 35% more bend resistance for ultimate performance for the decerning and heavier riders on the broadest of front foils.

At the extreme is our **PRO Ultra High Modulus** mast range.

Power Carbon Fatty, With wing spans pushing into the 1500 range and beyond, we set out to create a mast that could handle the loads, deliver unshakable stiffness and maintain the smooth, precise feel AXIS riders expect.

This is the ultimate big rider (200lbs/95kg) platform for all their foiling disciplines.

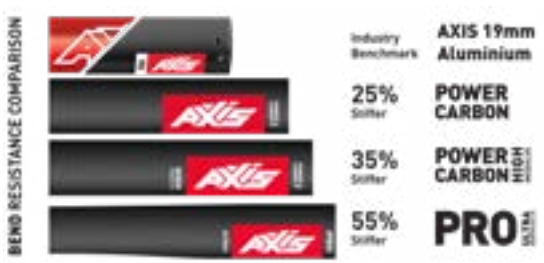
The Kaiwi mast is a pure performance mast designed to minimize drag and maximize glide efficiency for downwind racing, pump foiling, and prone foiling. With more than a year of development behind it, its capabilities are beyond doubt, having already topped international podiums across all three disciplines.

By optimizing for smaller-span wings and lighter riders, the Kaiwi achieves an exceptionally low-drag profile that larger, stiffer masts simply cannot match.

Designed for wings up to 100 cm in span (excluding the Tempo) and riders weighing 85 kg or less, it represents a no-compromise approach to delivering maximum efficiency for those who demand the highest levels of performance.

An in-depth analysis of both hydrodynamics and structural loading led the R&D team to optimize every aspect of the mast's geometry and material stiffness. What began as a project to create the world's most efficient downwind race mast soon proved to have much broader appeal, with its exceptional efficiency benefiting any rider seeking less drag, improved glide, and greater control, provided they fall within the recommended weight range and use foils with a span under 100 cm.

While our Ultra Pro and Fatty masts deliver superior stiffness and enhanced control for heavier riders and larger-span wings, neither can match the efficiency and minimal drag that make the Kaiwi so effective in glide-dominated disciplines. For riders focused on maximizing glide, maintaining speed, and extracting every ounce of performance from their foil, the Kaiwi sets a new benchmark.





PRO ULTRA HIGH MODULUS



1050 41.3in	Wide High Aspect Front foils, Big wave and tow-ins, wing surf, wind foil and kite foil.
900 35.4in	Wide High Aspect Front foils, Big wave and tow-ins, downwinder pros in open ocean, great for wing surf, wind foil and kite foil.
800 31.5in	Bigger surf, downwinders, advanced riding with all foils in shallow areas.
720 28.3in	Downwinders, Dock and Flatwater Pump, advanced riding with all foils in shallow areas.

Compatible with all Fuselages except Fatty

Ti Link, Black & Red Fuselage

POWER CARBON HIGH MODULUS



1020 40.1in	Wide High Aspect Front foils, Big wave and tow-ins, wing surf, wind foil and kite foil.
900 35.4in	Wide High Aspect Front foils, Big wave and tow-ins, downwinder pros in open ocean, great for wing surf, wind foil and kite foil.
820 32.3in	Bigger surf, downwinders, advanced riding with all foils.
750 29.5in	Wing surf or 'surfy' option for kite foiling, good option for shallow areas.

Compatible with all Fuselages

Ti Link, Black & Red Fuselage

POWER CARBON



900 35.4in	Wide High Aspect Front foils, Big wave and tow-ins, downwinder pros in open ocean, great for wing surf, wind foil and kite foil.
820 32.3in	Bigger surf, downwinders, advanced riding with all foils.
750 29.5in	Wing surf or 'surfy' option for kite foiling, good option for shallow areas.

Compatible with all Fuselages

Ti Link, Black & Red Fuselage

POWER CARBON FATTY



900 35.4in	Heavier riders in all diciplines, riders on broad span wings in all diciplines.
800 31.5in	Ultimate broad-span pump machine, larger riders in all diciplines,

ONLY Compatible with **Fatty Fuselage Range**

ULTRA HM Uni Carbon KAIWI



780 30.71in	The Kaiwi mast is a pure performance mast designed to minimize drag and maximize glide efficiency for downwind racing, pump foiling, and prone foiling.

Compatible with all Fuselages

Ti Link, Black & Red Fuselage



Aluminium **MASTS**

Originally developed through countless hours of computer analysis and engineering, the **AXIS Aluminium Mas**t achieves a 2.24 x improvement in stiffness compared with many other aluminium masts and even remains stiffer than many carbon masts available on the market today.

For 2026, we've taken that proven platform even further. The mast now integrates seamlessly with the redesigned base plate through a new tapered mast bevel and split, cross stabilising bolt. This creates an even more rigid connection, increasing overall system stiffness while improving strength and long term durability.

The result is a direct, solid and predictable feel on the water, particularly through manoeuvres. This combination of stiffness, control and predictability makes the Aluminium Mast an excellent choice for beginner and intermediate riders, while delivering the performance experienced riders expect from the AXIS system.

Each mast is internally sealed to prevent water ingress, avoiding unnecessary weight gain while helping protect against internal corrosion.

The affordability of aluminium also makes it practical to own multiple mast lengths for different foiling disciplines, conditions and locations, or simply to move to a longer mast as your riding progresses. Thanks to the modular AXIS system, changing mast lengths is quick and easy. Using the appropriate AXIS **Doodad**, the 2026 Aluminium Masts are compatible with every fuselage system in the AXIS range, including the new **FATTY** system, which requires the dedicated **FATTY Doodad**.

The 2026 AXIS Aluminium Masts are also backwards compatible with previous-generation 19 mm **AXIS base plates** and **Doodads**.

The 2026 AXIS Aluminium Masts are supplied without mounting screws.

Check out our Stainless Steel and Titanium Screw Sets for compatible hardware.



SIZE	LENGTH mm (in)	USE	PRODUCT CODE
105	1,050 (41.3)	Big-swell downwinders, more aggressive riding and speed kite foiling.	AXMAST19M105
90	900 (35.4)	Big waves and tow-ins, downwind pros in open ocean. Standard for wing surf, wind foil and kite foil.	AXMAST19M90
82	820 (32.3)	Bigger surf, downwinders, advanced riding with all foils.	AXMAST19M82
75	750 (29.5)	Wing surf, or the 'surfy' option for kite foiling.	AXMAST19M75
68	680 (26.8)	Prone surf foiling and all-round SUP. Shallow-water wing foiling.	AXMAST19M68
60	600 (23.6)	A good starting point for all disciplines and shallow areas.	AXMAST19M60
45	450 (17.7)	Ideal for your first flights.	AXMAST19M45

Aluminium **BASE**

The 2026 AXIS Aluminium **Mast Base Plate** has been re-engineered from the ground up, improving on what was already an industry leading design.

CNC machined from a single, solid, billet of aircraft grade aluminium, the new base plate delivers increased stiffness and durability while reducing unnecessary weight all wrapped up in a BLACK anodised coating that will survive the rigors of both salt and freshwater riding.

The bevelled mast pocket now features a tapered profile, increasing lateral stiffness while removing material where it isn't needed, a split, cross-stabilising bolt exquisitely faired into the bevel further strengthens the mast to base plate connection, helping maintain a solid, precise fit and improving long term durability.

The rear section of the bevel has also been re-designed with a smoother, less aggressive edge for improved safety and easier handling.

Overall plate width has been reduced, allowing it to fit neatly inside trench-style foil boards, particularly the AXIS Pocket Trench and additional mounting holes provide direct attachment options for your Foil Drive or other compatible foil-assist system.



The 2026 AXIS Aluminium **Mast Base Plate** is supplied with mounting screws.

NOT compatible with previous generation 19mm RED Aluminium masts



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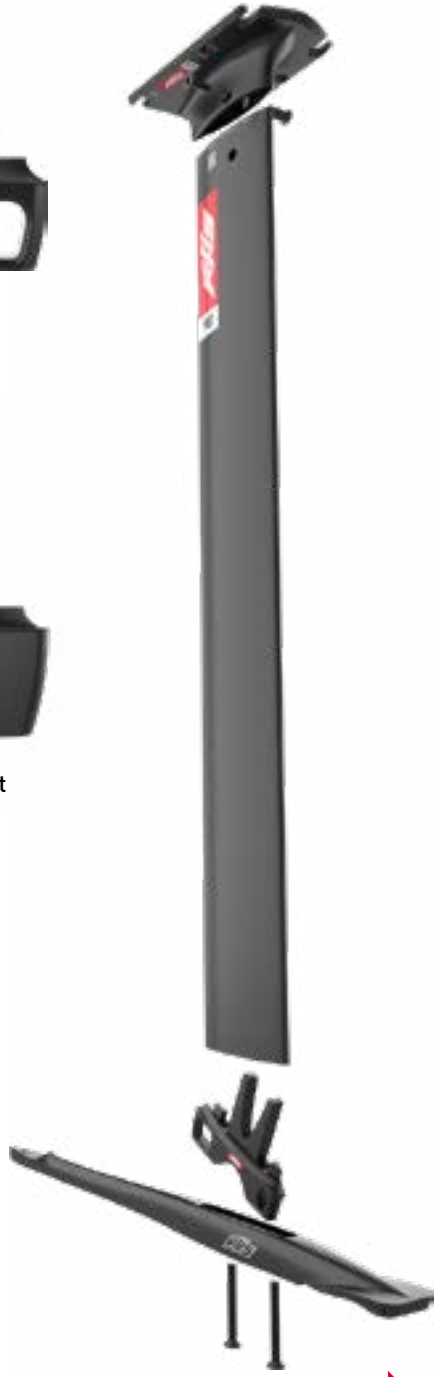




Fuselage to 19mm
Mast Adapter / Doodad
AXADPT19MM



Fatty Fuselage to 19mm Mast
Adapter / Doodad
AXADPTFAT19MM



Aluminium **DOODAD**

The 2026 AXIS **Doodad** is the critical connection between AXIS Aluminium Masts and Black Series Fuselages, forming one of the key structural components of the system for maximum stiffness and strength.

The redesigned **Doodad** features additional support legs that increase the overall lateral stiffness while significantly reducing torsional loads and internal stresses on the mast sidewalls. The result is a stronger, more rigid connection between the mast and fuselage.

The drop on **Doodad** fairing spreads the loads more effectively between the mast and fuselage reducing point loading at the connection. Its tapered profile also draws on lessons learned during the development of our **Ultra HM** and **Kaiwi** masts, improving water flow around the mast to fuselage junction to reduce both turbulence and drag.

The 2026 **Doodad** is available for both Standard Black Series Fuselages and the **FATTY** Fuselage system.

It is fully compatible with previous-generation 19 mm RED Aluminium Masts.

The 2026 **Doodads** are supplied with mounting screws.

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FOIL DRIVE
INTEGRATED

INTEGRATED
ULTRA HIGH MODULUS
POWER CARBON PRO 800

The **Foil Drive Integrated** Mast isn't just an evolution of the aluminium version – it's the premium expression of what Foil Assist can be. Built from advanced carbon composites in both **High Modulus** and **Ultra High Modulus** variants, this system blends strength, efficiency and simplicity into one sleek package. With the Motor Pod positioned 15cm below the baseplate, riders enjoy cleaner hydrodynamics and ample mast length free of drag – creating the smoothest, most intuitive Foil Drive experience yet.

Around the Motor Pod, we've expanded the chord and reinforced the cavity with a denser carbon layup, delivering additional torsional strength. Add to that a redesigned baseplate with a slimmer fit to the Foil Drive chassis, and you've got an 800mm mast that's stronger than ever before. With all cables routed inside, the result is a setup that looks clean, rigs fast and feels rock solid under your feet.

This is the premium expression of Foil Assist – a mast that blends AXIS carbon innovation with Foil Drive's groundbreaking technology. From SUP foilers looking for easy paddle-ups to advanced riders chasing unbroken swells offshore, the Integrated Mast makes progression simple and performance natural.



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HIGH INTEGRATED MODULUS

POWER CARBON 800

POWER CARBON **FATTY** eFOIL MODE 800



New for Autumn 2026, the **Power Carbon FATTY Integrated E-Foil Mast** joins our already popular **HM** and **Ultra HM Carbon Integrated Mast** range, bringing a new level of stiffness, control and integration to powered foiling.

E-foiling opens a huge range of possibilities, from flat water cruising and learning to carve a surf-foil to racing or simply exploring when there's no wind or swell. Whether you're taking your first flights or pushing performance at speed, the **FATTY Integrated E-Foil Mast** is designed to make powered foiling smoother, simpler and more predictable.

The low motor position provides uninterrupted thrust and consistent power delivery, giving beginners the confidence to learn while providing experienced riders with the response and control needed to push harder.

E-foil systems place significantly greater loads on the mast due to the additional weight of the system, battery and the low position of the motor pod, the **FATTY** platform has been engineered specifically to manage these loads, delivering a level of stiffness and control previously difficult to achieve.

Exceptional lateral and torsional stiffness keeps the foil composed and predictable, regardless of how hard or fast you push it, the size of the wing you choose, or the weight and ability level of the rider.

Integrating the power cable internally also creates a significantly cleaner and lower-drag solution than externally mounted systems with long exposed cables. Less drag, less clutter and less hassle, with a streamlined setup designed from the outset for powered foiling.

The 2026 **Power Carbon FATTY Integrated E-Foil Mast** is supplied with integrated cable but the Foil Drive unit and motor are NOT supplied with this mast.

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Fuselage









All AXIS Fuselage now ship with all the screws you need to attach your favourite wings and mast, these are pre-lubed, ready to ride straight out of the bag.

We have added a discretely placed Zinc Anode integrated into the front wing attachment area

FUSELAGE	LENGTH mm (in)	PRODUCT CODE
Standard	780 (30.7)	AXBFUSELAGE780AD+
Short	700 (27.6)	AXBFUSELAGE700AD+
Ultrashort	640 (25.2)	AXBFUSELAGE640AD+
Crazyshort	600 (23.6)	AXBFUSELAGE600AD+
Sillyshort	560 (22.0)	AXBFUSELAGE560AD+
Psychoshort	520 (20.5)	AXBFUSELAGE520AD+

Black **Advance+** Range

Looking to push harder, carve tighter and unlock the most responsive ride in the Black range? The **Advance+** was developed for riders demanding maximum agility, tighter turning radii and a more direct connection to their foil.

With the mast positioned 60 mm further forward than the original **Black Standard fuselage** and 40 mm further forward than the **Advance 20**, the **Advance+** moves the foil's pivot point closer to the front wing. The result is faster turn initiation, smoother rail-to-rail transitions and a more lively, surf-oriented feel. Much like moving the fins forward on a surfboard, the foil feels more willing to change direction and respond instantly to rider input.

The **Advance+** also delivers increased torsional stiffness, particularly noticeable when pumping or riding larger-span wings where precise control and immediate response are critical.

Why doesn't everyone ride the **Advance+**? The same characteristics that make it feel highly reactive and connected can also make it feel more sensitive in pitch. Riders focused on progression, stability or predictable tracking may prefer the more balanced nature of the Advance 20. The Advance 20 also offers greater yaw stability, requiring less rider input to maintain a locked-in feel when cruising, learning or covering distance.

Choose the **Advance 20** if you:

- Prioritize stability and predictability
- Are early in your foiling journey
- Prefer a more planted and forgiving ride
- Not recommended for wings with a larger span than 1150 cm

Choose the **Advance+** if you:

- Want maximum manoeuvrability and responsivenes
- Enjoy aggressive carving and tighter turns
- Are looking to push the performance limits of your foil setup
- Recommended for all foil sizes (Fatty more suited to the largest span wings)

Compatible with all foils utilizing the **BLACK** connection system, the **Advance+** features our integrated zinc anode to help reduce corrosion. All required hardware is supplied pre-installed with **Tef-Gel** applied, making it ready to ride straight out of the included protective bag.

Available in **Short** (700 mm), **Ultrashort** (640 mm), **Crazyshort** (600 mm), **Sillyshort** (560 mm) and **Psychoshort** (520 mm).

Note: Moving the mast forward effectively increases the amount of fuselage behind the mast. Riders switching from an **Advance 20** to an **Advance+** should generally consider reducing fuselage length by one size to maintain a similar overall feel.









Black **+20** Range

The new **Advance 20** Fuselage refines something we have known for years, the position of the mast on the fuselage plays a critical role in determining the balance between rider input and foil response.

Positioned 20 mm further forward than our original fuselages (closer to the front wing), the **Advance 20** is aimed squarely at riders who prefer a more subtle, controlled, and forgiving feel. It is particularly well suited to those in the earlier stages of their foiling journey, as well as anyone seeking a smoother and less reactive ride.

This mast position generates slightly more front-foot pressure than the **Advance +** range, generally making it easier to initiate flight. At the same time, the foil becomes less sensitive to small weight shifts, resulting in slower, more predictable pitch response. Combined with improved yaw stability, we end with a foil that feels more locked-in, confidence-inspiring and comfortable across a wide range of conditions.

So why doesn't everyone ride the Advance 20?

Riders looking for razor-sharp turning, maximum pumping efficiency, or those regularly using foils with spans significantly greater than 1150 mm will likely be better served by the **Advance +** range. However, if your priorities are fun, progression, and building confidence on foil, the **Advance 20** is designed to help you get there faster.

Built with all of our latest innovations - including zinc anodes, a sleek rear profile, a stronger and more positive mast connection, and M6 front-bolt heli-coils first introduced on the **Fatty** fuselage - the **Advance 20** represents another step forward in both performance and durability. The result is a connection that feels natural and intuitive, from your first successful pump to your longest glide.

FUSELAGE	LENGTH mm (in)	PRODUCT CODE
Standard	784 (30.9)	AXBFUSELAGE784AD20
Short	703 (27.7)	AXBFUSELAGE703AD20
Ultrashort	643 (25.3)	AXBFUSELAGE643AD20

Black **FATTY** Range

Riders wanted to pump further with less energy, to wing in lighter winds and to stretch out their downwind runs in marginal conditions. The answer was to go wider, with higher AR foils that unlocked endless glide and effortless lift. But these wings brought new demands. They needed a platform strong and efficient enough to drive them, without bleeding energy at the connection points. That's where the Fatty Fuse comes in.

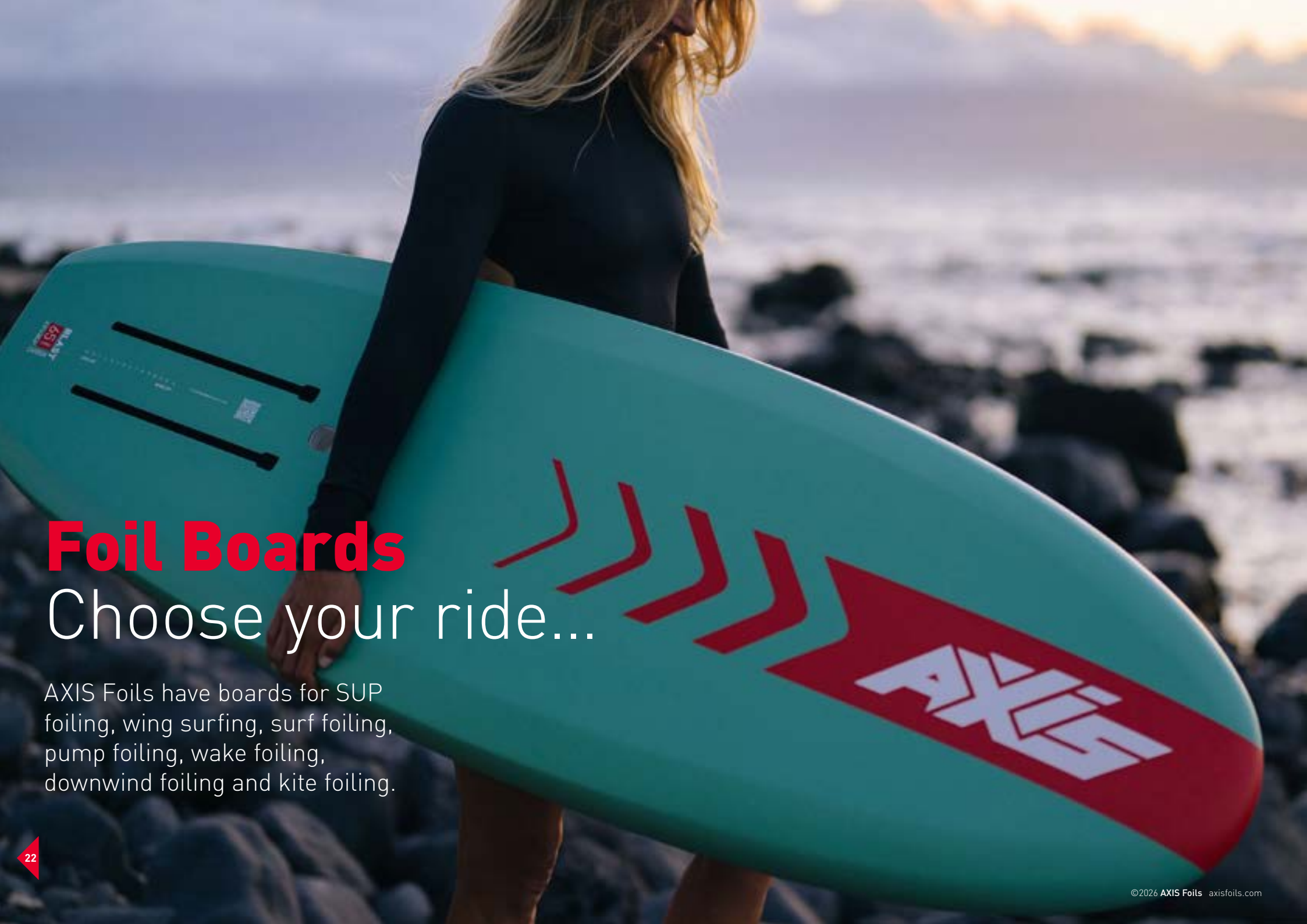
Developed in our proven Advance+ lengths of Short, Ultrashort and Psychoshort (just 520mm), the all-new Fatty Fuse was designed hand-in-hand with the Fatty Mast to keep today's biggest wings locked in and alive underfoot. Wider, stiffer and uncompromising, it delivers the backbone that high-aspect foils demand, so you can chase glide, pump longer and ride with less effort - exactly as we intended when creating the Fatty system.

Every detail has been engineered for reliability where it matters most. The Fatty Fuse brings a major boost in strength and load tolerance to pair seamlessly with our thicker mast profiles, ensuring that even the largest foils remain predictable and responsive. Complete with our sacrificial zinc-anode for lasting durability in harsh conditions, it's the kind of refinement that keeps you riding longer without thinking twice.

Massive foils no longer mean a compromise in control. With the Fatty Fuse, riders can push into new spans and speeds while holding onto that unmistakable AXIS-level precision. It's a leap forward in control, stability and confidence, opening the door to truly amazing performance.

FUSELAGE	LENGTH mm (in)	PRODUCT CODE
Short	700 (27.6)	AXBFUSELAGE700AD+FAT
Ultrashort	640 (25.2)	AXBFUSELAGE640AD+FAT
Psychoshort	520 (20.5)	AXBFUSELAGE520AD+FAT

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Foil Boards

Choose your ride...

AXIS Foils have boards for SUP foiling, wing surfing, surf foiling, pump foiling, wake foiling, downwind foiling and kite foiling.

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BLAST

Fast, narrow, efficient.

The AXIS Blast winging foil boards are quick to take off with narrower outlines and longer lengths. The narrower width is great for tight turns into the face of swells. We have also changed the deck pad to have raised rails and grooves that allow the water to move off the pad quicker, resulting in better grip and no slippage. Our winging racing crew loves the smaller sizes as they are efficient through the wind. The full Carbon construction, with PVC top and bottom, has longer tracks and is Foil Drive approved. The Blast boards pair well with the newer higher aspect front wings, such as the Fireball and ART v2, as these benefit from the higher take-off speed.

SIZE	LENGTH ft	WIDTH in	VOLUME L	PRODUCT CODE
115	5'7"	25	115	AXBLAST115
105	5'6"	24	105	AXBLAST105
95	5'5"	23	95	AXBLAST95
85	5'4"	22	85	AXBLAST85
75	5'3"	21	75	AXBLAST75
65	5'2"	20	65	AXBLAST65
55	5'1"	19	55	AXBLAST55





Purpose built bags available for every Blast size

BLAST 55 LITRES CARBON 5'1"x 19.0"
BLAST 65 LITRES CARBON 5'2"x 20.0"
BLAST 75 LITRES CARBON 5'3"x 21.0"
BLAST 85 LITRES CARBON 5'4"x 22.0"
BLAST 95 LITRES CARBON 5'5"x 23.0"
BLAST 105 LITRES CARBON 5'6"x 24.0"
BLAST 115 LITRES CARBON 5'7"x 24.5"



HYBRID

HYBRID 90 LITRES CARBON
5'10"x 21.0"

HYBRID 100 LITRES CARBON
6'0"x 22.0"

HYBRID 110 LITRES CARBON
6'2"x 23.0"

HYBRID 120 LITRES CARBON
6'4"x 23.5"

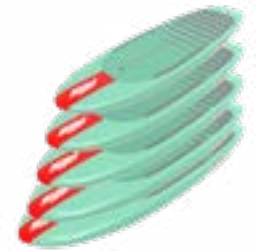
HYBRID 130 LITRES CARBON
6'6"x 24.25"

The **AXIS Hybrid** is a novel new concept for us, aimed at real world riders who want to enjoy the downwind experience without having to commit to a board dedicated to that purpose.

The hybrid can be used for light wind winging, SUP foiling, downwind and more.

Constructed with EPS cores, full carbon and a tough PVC sandwich layer on the top surface only, these boards are built to be light for optimised performance.
A super high density foam block encases the mast tracks and is sandwiched between deck and bottom.

SIZE	LENGTH mm (ft)	WIDTH mm (in)	VOLUME L	PRODUCT CODE
5'10	1,778 (5'10)	533 (21)	90	AXHYBRID90
6'0	1,828 (6'0)	559 (22)	100	AXHYBRID100
6'2	1,870 (6'2)	584 (23)	110	AXHYBRID110
6'4	1,920 (6'4)	597 (23.5)	120	AXHYBRID120
6'6	1,981 (6'6)	616 (24.25)	130	AXHYBRID130



Purpose built bags available for every Hybrid size





PRONE

PRONE 26 LITRES CARBON 4'1"x 19.0"
PRONE 31 LITRES CARBON 4'3"x 19.25"
PRONE 37 LITRES CARBON 4'5"x 19.5"
PRONE 44 LITRES CARBON 4'8"x 19.75"

The evolution of the prone boards has been a massive team effort. The previous boards were great, and the new range has taken a big step up with the shape getting tweaked. The biggest change has been the pinched in tail to really help with touch downs through the turns.

The 4'1 at 26L has been a really good choice for those that want a board to use for towing, or smaller rides on the prone.

The range has the same outline all the way through. The prone boards are also great for Foil Drive pairing if you are after a smaller volume.

We have been really loving the bigger size board in the smaller surf to float you over that shallow sand bars.

The smaller sizes have been great for those that are looking for the ultimate prone pump board for the least amount of swing weight and the best feel between your feet and mast.

The new deck pads have also been another big step up. With the new color way to really keep the clean look of the boards.

SIZE	LENGTH mm (ft)	WIDTH in	VOLUME L	PRODUCT CODE
4'8	1,422 (4'8)	19.75	44	AXPRONE44
4'5	1,346 (4'5)	19.5	37	AXPRONE37
4'3	1,295 (4'3)	19.25	31	AXPRONE31
4'1	1,244 (4'1)	19	26	AXPRONE26



Purpose built bags available for every Prone Size





MAKO v2

Frank Foilboards Maui

MAKO2 DOWNWIND 130 LITRES 8'11"x17.5" CARBON
MAKO2 DOWNWIND 120 LITRES 8'9"x17.5" CARBON
MAKO2 DOWNWIND 110 LITRES 8'7"x17.25" CARBON
MAKO2 DOWNWIND 100 LITRES 8'5"x17" CARBON
MAKO2 DOWNWIND 90 LITRES 8'3"x16.75" CARBON

A true benchmark for Downwind SUP the Mako introduced a stability and ease of paddle up not seen before in the DW SUP foil world. Shaped by Frank Maffei of Frank Foil boards and tested and refined by some of the worlds finest Downwind SUP foilers, the MAKO 2 raises the bar once again adapting to the constantly changing demands of this sport.

This board is all about subtle refinements and marginal gains that combine to create a significantly improved package, more stability, faster paddling, improved feeling and control over the foil and most importantly, easier take offs on smaller, faster, high aspect foils.

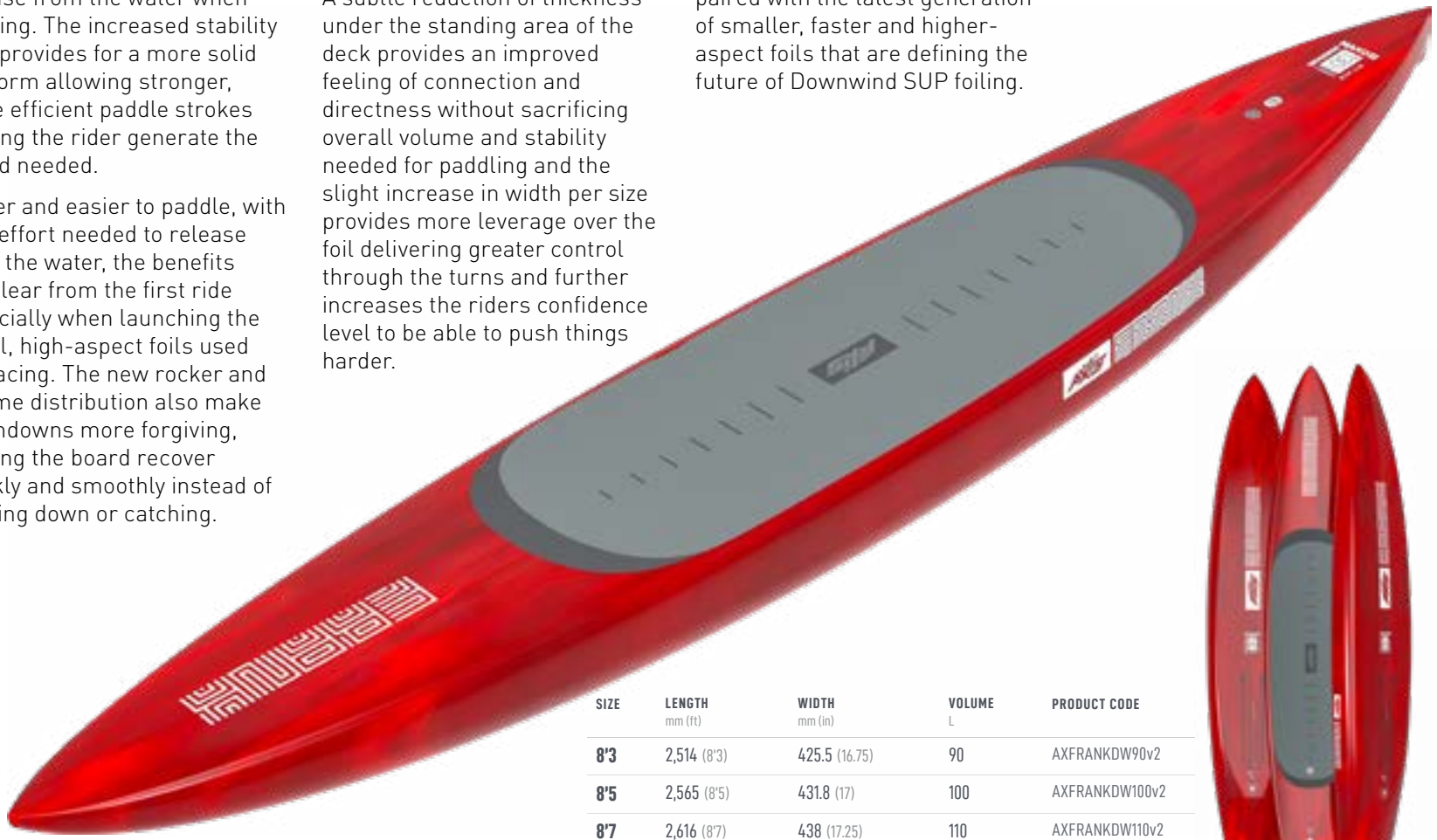
The MAKO 2 features a redesigned nose with slightly more volume carried forward while maintaining the board's overall balance, this prevents the nose from being pushed underwater during hard paddling, particularly when using smaller front wings. This new nose profile and volume distribution allow the rider to paddle up already standing in the ideal foiling position with no need to move or reposition the feet before take-off.

By refining both the rocker line and bottom shape speed, stability and acceleration have all been improved with a notable bonus being a faster release from the water when starting. The increased stability also provides for a more solid platform allowing stronger, more efficient paddle strokes helping the rider generate the speed needed.

Faster and easier to paddle, with less effort needed to release from the water, the benefits are clear from the first ride especially when launching the small, high-aspect foils used for racing. The new rocker and volume distribution also make touchdowns more forgiving, helping the board recover quickly and smoothly instead of slowing down or catching.

Whilst the improving the physical performance of the board was a goal, improving the rider feeling of control and connection was also a priority. A subtle reduction of thickness under the standing area of the deck provides an improved feeling of connection and directness without sacrificing overall volume and stability needed for paddling and the slight increase in width per size provides more leverage over the foil delivering greater control through the turns and further increases the riders confidence level to be able to push things harder.

The result is a MAKO2 that retains the character of the original but is faster, more stable and easier to paddle up and release — particularly when paired with the latest generation of smaller, faster and higher-aspect foils that are defining the future of Downwind SUP foiling.



SIZE	LENGTH mm (ft)	WIDTH mm (in)	VOLUME L	PRODUCT CODE
8'3	2,514 (8'3)	425.5 (16.75)	90	AXFRANKDW90v2
8'5	2,565 (8'5)	431.8 (17)	100	AXFRANKDW100v2
8'7	2,616 (8'7)	438 (17.25)	110	AXFRANKDW110v2
8'9	2,667 (8'9)	444.5 (17.5)	120	AXFRANKDW120v2
8'11	2,718 (8'11)	444.5 (17.5)	130	AXFRANKDW130v2

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MAKO

MAKO 90 LITRES DOWNWIND 7'11 x 16.25" CARBON
MAKO 100 LITRES DOWNWIND 8'2" x 16.5" CARBON
MAKO 110 LITRES DOWNWIND 8'4" x 16.75" CARBON
MAKO 120 LITRES DOWNWIND 8'6" x 17.0" CARBON
MAKO 130 LITRES DOWNWIND 8'8" x 17.25" CARBON

Leveraging a revolutionary rocker line designed to increase board speed and effortlessly release from the water surface for extremely smooth takeoffs.

The combination of the rocker line and the rail design makes this board extremely stable. This allows for a reduced board width which is key for increased displacement speed.

The bottom design purpose is to increase acceleration through the water for take offs but also to maintain forgiveness during touch downs at high speeds.

This ability to increase board speed also improves stability due to the fact that the board is navigating at higher speeds through the water engaging the foil that will help balancing on the board.

The extra rocker noticeable on the back of the board ensures that the tail doesn't catch on the water surface while riding on foil and also it prevents the board from tracking on a straight line too aggressively causing loss of balance.

Our flat deck allows for comfort and direct feel during long downwind runs and it offers a wide area to move the feet around to accommodate the rider's stance preferences.

Volume is concentrated around the middle of the board which results in an extremely balanced feel wile padding and when on foil.

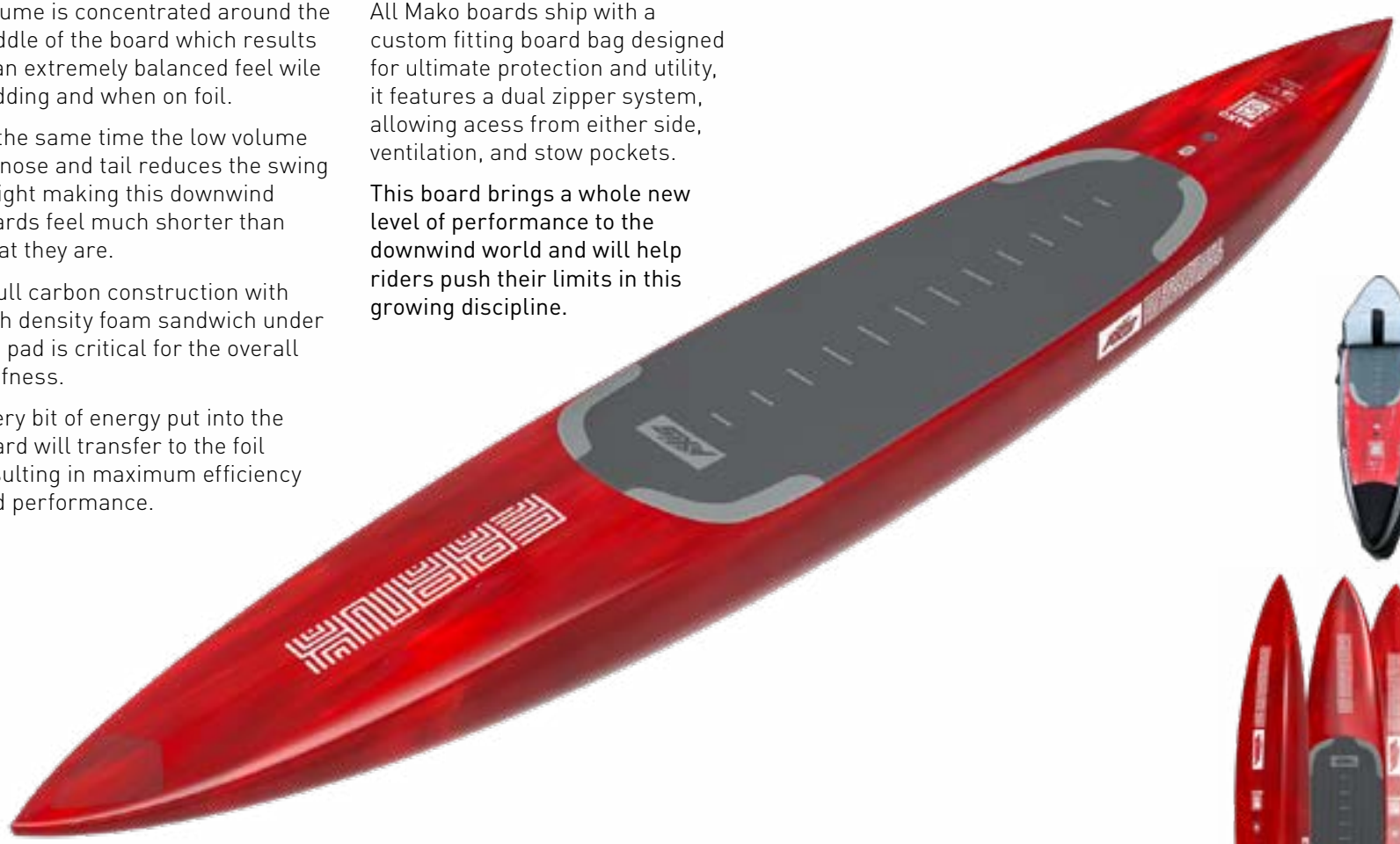
At the same time the low volume on nose and tail reduces the swing weight making this downwind boards feel much shorter than what they are.

A full carbon construction with high density foam sandwich under the pad is critical for the overall stiffness.

Every bit of energy put into the board will transfer to the foil resulting in maximum efficiency and performance.

All Mako boards ship with a custom fitting board bag designed for ultimate protection and utility, it features a dual zipper system, allowing acess from either side, ventilation, and stow pockets.

This board brings a whole new level of performance to the downwind world and will help riders push their limits in this growing discipline.





Purpose built bags available for every Mako size

SIZE	LENGTH mm (ft)	WIDTH mm (in)	VOLUME L	PRODUCT CODE
7'11	2,413 (7'11)	412 (16.25)	90	AXFRANKDW90
8'2	2,489 (8'2)	419 (16.5)	100	AXFRANKDW100
8'4	2,540 (8'4)	425.5 (16.75)	110	AXFRANKDW110
8'6	2,590 (8'6)	431.8 (17)	120	AXFRANKDW120
8'8	2,641 (8'8)	438 (17.25)	130	AXFRANKDW130

DART

DART 90 LITRES CARBON 7'0"x 18.5"
DART 100 LITRES CARBON 7'2"x 19.0"
DART 110 LITRES CARBON 7'4"x 19.5"
DART 120 LITRES CARBON 7'6"x 20.0"
DART 130 LITRES CARBON 7'8"x 20.5"

Meet the DART, a shorter more playful SUP suited for a large variety of conditions and ability levels.

The main goal was to keep the design as compact as possible while maintaining board speed and ease of take off. I wanted to have a playful board capable of performing in a variety of conditions and easy to travel with

Thanks to its rocker line and bottom contours, the board accelerates effortlessly keeping the take off easy considering the board's dimensions.

Another important aspect that I kept in mind was stability. Usually shorter boards tend to be less stable, so I changed the bottom shape to be flatter in the standing area and tail, and increased the tail and overall width of the board

With its stubbier design , the DART feels incredibly nimble while flying, allowing for more radical carves, better foil control and it fits better in tighter bumps when downwinding, and in the wave pocket when surfing.

Because of the added width, I was now able to comfortably fit a concave deck to have a more "locked in" feel while riding.

You will find some of the same features from the MAKO such as the vertical rails and extra tail rocker for added stability, and displacement hull in the nose section of the bottom of the board to improve glide and acceleration.

The DART is tailored to short period bumps downwind runs and wave riding but it also works great as a light wind wing or parawing board.

The compact design and wide range of use makes the DART the perfect travel board that will allow you to make the most out of a broad variety of conditions.





Purpose built bags available for every Dart size

SIZE	LENGTH mm	WIDTH mm (in)	VOLUME L	PRODUCT CODE
7'0	2,134	470 (18.5)	90	AXFRDART90
7'2	2,184	483 (19.0)	100	AXFRDART100
7'4	2,234	495 (19.5)	110	AXFRDART110
7'6	2,286	508 (20)	120	AXFRDART120
7'8	2,337	520 (20.5)	130	AXFRDART130



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MINI DART

MINI DART 50 Litres CARBON 5'6"x 18.5"
MINI DART 60 Litres CARBON 5'8"x 18.5"
MINI DART 70 Litres CARBON 5'10"x 19.0"
MINI DART 80 Litres CARBON 6'0"x 19.5"
MINI DART 90 Litres CARBON 6'2"x 20.0"
MINI DART 100 Litres CARBON 6'4"x 20.5"

Meet the MINI DART, a new take on mid length designs.

This board was designed with parawinging in mind but it will bring a lot of advantages to your wing and prone game.

The fast rocker line makes take offs effortless even in marginal conditions.

The bottom shape changes from displacement hull in the nose section, to flat in the mid to tail section, resulting in great acceleration, release and rebound off the water surface.

Similar to the DART, the wider tail improves stability and offers wider planing surface to generate speed.

The added length and extra volume on the front allows the rider to pump the board on the water to generate forward momentum comfortably without burying the nose. This is a great feature especially for parawinging where pumping the board is a crucial step for a successful takeoff, but also for prone foiling making paddling out to the line up and catching waves easier.

The MINI DART features a concave deck for added responsiveness and a more "locked in" feel while riding, resulting in more confidence when laying down big carves and better control at high speeds.

The MINI DART redefines what a mid length is capable of.

Wing, parawing or prone, this board does it all and it will excel in a large variety of conditions.





Purpose built bags available for every Mini Dart size

SIZE	LENGTH mm	WIDTH mm (in)	VOLUME L	PRODUCT CODE
5'6	1,676	470 (18.5)	50	AXFRMD50
5'8	1,727	476.2 (18.75)	60	AXFRMD60
5'10	1,778	486.2 (19.0)	70	AXFRMD70
6'0	1,829	495.3 (19.5)	80	AXFRMD80
6'2	1,880	508 (20.0)	90	AXFRMD90
6'4	1,930	520 (20.5)	100	AXFRMD100



POCKET TRENCH

POCKET TRENCH 40 LITRES CARBON
1500 x 475

POCKET TRENCH 50 LITRES CARBON
1600 x 492

POCKET TRENCH 60 LITRES CARBON
1700 x 512



These highly anticipated **50L** and **60L** boards bring the magic of the AXIS **Pocket Trench** (patent pending) to foil assist riders of all size and ability level. Rather than simply carving out the base of the board with a bulky trench that disturbs water flow AXIS developed the recessed pocket that allows your Foil Drive to neatly slide inside resulting in greatly reduced drag on take offs and effortlessly smooth touch downs when on motor.

This streamlined approach also led to the development of the bespoke AXIS tracks and sliders, not only the fastest and easiest battery swaps available on a trench board but also allowing the use of custom designed tracks engineered for the exacting demands of modern foiling, not cast offs from the surfboard world better suited to holding a fin in a longboard.

Simply drop, slide and lock into your preferred setup and thanks to the fibreglass reinforcements in the track zone and front deck, the **Pocket Trench** ensures uninterrupted signal strength from your controller, eliminating the common signal connection frustrations of other full-carbon boards.

The new **50l** 160 x 492 (5'2" x 19.3") is an ideal board for light weight beginners <70 kg, intermediate foilers <90 kg and advanced level heavy weights >90kg

The **60L** measures 170 x 512 (5'6" x 20.15") and is targeted towards beginners <90kg and intermediate heavy weight riders >90 kg

All sizes of Pocket Trench are compatible with all models of Foil Drive (Slim, Max and Fusion) however they are not compatible with the softer bottom protection plates that were supplied on Max models with serial numbers between AM-0001 and AM-2300. If you have one of these units contact Foil Drive to ask for the newer stronger board protection plate.

ONLY the AXIS supplied sliders should be used in the Pocket Trench range.



Purpose built
Pocket Trench bags available



SIZE	LENGTH mm (ft)	WIDTH mm (in)	VOLUME L	PRODUCT CODE
40L	1,500 (4'11)	480 (18.9)	40	AXFDTRENCH40L
50L	1,600 (5'3)	492 (19.4)	50	AXFDTRENCH50L
60L	1,700 (5'7)	512 (20.2)	60	AXFDTRENCH60L

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DOCK

The Dock's versatile shape is great for dock, wake, kite and more...

Available in 2 construction options, Full Carbon and a more economical red fibreglass version

Perfect for complete learners all the way through to pro pumpers.

The deck has a mellow nose rocker to help with those touchdowns while getting going off the dock and is a great aid in recovering on the pump.

The standing area has a small amount of dish in the deck to distribute your weight evenly to get in the best position to pump to your PB.

Both boards share the same great feel while underfoot with solid stiffness. The width of the board makes it really easy to land your feet on in that critical time.



Purpose built bags available for DOCK boards, Black Carbon version is supplied with a bag

SIZE	LENGTH mm (in)	WIDTH mm (in)	BUILD	FOOTSTRAP INSERTS	PRODUCT CODE
999	1,000 (39.4)	455 (17.9)	Carbon	Yes	AXDOCK999CB
999	1,000 (39.4)	455 (17.9)	Fibreglass	Yes	AXDOCK999FG
899	900 (35.4)	408 (16.1)	Carbon	Yes	AXDOCK899CB
899	900 (35.4)	408 (16.1)	Fibreglass	Yes	AXDOCK899FG





DOCK PRO 880

880 x 420 mm

The new Dock replaces the tray, this versatile shape is great for dock, wake, kite and more...

Available in 2 construction options, Full Carbon and a more economical red fibreglass version

Perfect for complete learners all the way through to pro pumpers.

The deck has a mellow nose rocker to help with those touchdowns while getting going off the dock and is a great aid in recovering on the pump.

The standing area has a small amount of dish in the deck to distribute your weight evenly to get in the best position to pump to your PB.

Both boards share the same great feel while underfoot with solid stiffness. The width of the board makes it really easy to land your feet on in that critical time.





LENGTH mm (in)	WIDTH mm (in)	PRODUCT CODE
880 (34.6)	420 (16.5)	AXDOCK880CB

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TRAY V5

TRAY 110 CARBON
110cm x 48cm

TRAY 125 CARBON
125cm x 50cm

The TRAY carbon board has always been the ultimate kite foilboard. But our customers started using it for pumping, dock starting and foiling behind the boat.;

So it was a natural progression of the iconic TRAY line, to get revamped with a brand new outline, bringing the widest point of the board further forward, while the tail got narrower;This way the board has a perfect balance under the feet, while the tail doesn't catch during those hard carves;

The Tray boards are still super thin (at 20mm thickness) and maintain the same reinforced carbon construction.

For the V5 we have borrowed the look from our popular Frank Downwind board range in doing so we have improved its thermal properties, when left baking in the sun for hours (not recommended). The EVA pad covers the complete length of the board, so you can place your feet anywhere your stance requires. And multiple footstrap inserts make the TRAY boards very versatile for strapless or strapped riding.





SIZE	LENGTH mm (in)	WIDTH mm (in)	FOOTSTRAP INSERTS	PRODUCT CODE
125	1,250 (49.2)	500 (19.7)	Yes	AXTRAY125v5
110	1,100 (43.3)	480 (18.9)	Yes	AXTRAY110v5

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FOILDRIVE

5’8”– 5’0”

The **AXIS Foil Drive** boards are based on a longer and narrower shape, with a very flat section in the rocker to allow the **Foil Drive Gen2** to fit nicely. They run with less drag than a shorter wider board and make it very easy to get up on foil. They have been extensively tested to have a solid signal through the board, so no cutouts between the **Foil Drive** remote control and controller.

We wanted the **AXIS Foil Drive** boards to be full carbon, similar to the rest of the AXIS Foilboards. So the contruction is Carbon top and bottom with a PVC sandwich on both sides. This layup makes for a stiff board that gives a direct connection to the foil, while it’s still lightweight and strong. To maximize compatibility with all foil models and riding styles, we added long (32cm / 12.6”) mast tracks.



SIZE	LENGTH mm (ft)	WIDTH mm (in)	VOLUME L	PRODUCT CODE
5’0	1,524 (5’0)	483 (19)	50	AXFOILDRIVE50L
5’4	1,626 (5’4)	495 (19.5)	60	AXFOILDRIVE60L
5’8	1,727 (5’8)	508 (20)	70	AXFOILDRIVE70L



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Board
Bags

Designed to fit your board perfectly, these bags feature a tried and tested, robust 600D and nylon webbing construction with reinforced sidewalls at tip and tail for added security and abrasion resistance.

A novel ventilation system positioned exactly where it will do the most good. Several convenient grab handles, and a dual zip system which allows riders to leave the foil attached to the board between sessions.

Prone



SIZE	LENGTH mm (ft)	WIDTH in	PRODUCT CODE
4'8	1,422 (4'8)	19.75	AXPRONEBOARDBAG44
4'5	1,346 (4'5)	19.5	AXPRONEBOARDBAG37
4'3	1,295 (4'3)	19.25	AXPRONEBOARDBAG31
4'1	1,244 (4'1)	19	AXPRONEBOARDBAG26

Blast



SIZE	LENGTH ft	WIDTH in	PRODUCT CODE
115	5'7"	25	AXBLASTBOARDBAG115
105	5'6"	24	AXBLASTBOARDBAG105
95	5'5"	23	AXBLASTBOARDBAG95
85	5'4"	22	AXBLASTBOARDBAG85
75	5'3"	21	AXBLASTBOARDBAG75
65	5'2"	20	AXBLASTBOARDBAG65
55	5'1"	19	AXBLASTBOARDBAG55

Hybrid



SIZE	LENGTH mm (ft)	WIDTH mm (in)	PRODUCT CODE
5'10	1,778 (5'10)	533 (21)	AXHYBRID90BB
6'0	1,828 (6'0)	559 (22)	AXHYBRID100BB
6'2	1,870 (6'2)	584 (23)	AXHYBRID110BB
6'4	1,920 (6'4)	597 (23.5)	AXHYBRID120BB
6'6	1,981 (6'6)	616 (24.25)	AXHYBRID130BB

Mini Dart



SIZE	LENGTH mm	WIDTH mm (in)	PRODUCT CODE
5'6	1,676	470 (18.5)	AXFRMD50BB
5'8	1,727	476.2 (18.75)	AXFRMD60BB
5'10	1,778	486.2 (19.0)	AXFRMD70BB
6'0	1,829	495.3 (19.5)	AXFRMD80BB
6'2	1,880	508 (20.0)	AXFRMD90BB
6'4	1,930	520 (20.5)	AXFRMD100BB

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Dart



SIZE	LENGTH mm	WIDTH mm (in)	PRODUCT CODE
7'0	2,134	470 (18.5)	AXFRDART90
7'2	2,184	483 (19.0)	AXFRDART100
7'4	2,234	495 (19.5)	AXFRDART110
7'6	2,286	508 (20)	AXFRDART120
7'8	2,337	520 (20.5)	AXFRDART130

Mako



SIZE	LENGTH mm (ft)	WIDTH mm (in)	PRODUCT CODE
7'11	2,413 (7'11)	412 (16.25)	AXFRANKDWBOARDBAG90
8'2	2,489 (8'2)	419 (16.5)	AXFRANKDWBOARDBAG100
8'4	2,540 (8'4)	425.5 (16.75)	AXFRANKDWBOARDBAG110
8'6	2,590 (8'6)	431.8 (17)	AXFRANKDWBOARDBAG120
8'8	2,641 (8'8)	438 (17.25)	AXFRANKDWBOARDBAG130

Dock



SIZE	LENGTH mm (in)	WIDTH mm (in)	PRODUCT CODE
999	1,000 (39.4)	455 (17.9)	AXDOCKBOARDBAG100
899	900 (35.4)	408 (16.1)	AXDOCKBOARDBAG90

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Quiver **Bags**

Whether you use them for travel, to organize the back of your car or to hide new additions from your partner, these quiver bags will keep all your precious foil gear safe and together.

Made from robust 600D and nylon webbing construction with reinforced sidewalls. We've incorporated a ventilation system disguised as a logo patch, internal pockets for fuselage, spares and tools.

We've sized them generously so they'll accommodate your quiver as it grows whether that extends to multiple wings, multiple masts or both.




A second opening allows access from one end in addition to the top.


Large vent keeps air moving, reducing dampness and odours.


See-through pockets


Additional pockets in the sidewall.


External pocket for shoulder strap - board tie-downs etc.


Well thought out system for securing items for travel

Quiverbags 1150 &1400

SIZE	INSIDE mm	INSIDE in	PRODUCT CODE
1400	1,400 × 440 × 200	55.1 × 15.7 × 7.8	AX22FOILQBAG1400
1150	1,150 × 440 × 200	45.3 × 15.7 × 7.8	AX22FOILQBAG1150





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POWER BLADE

26mm Shaft

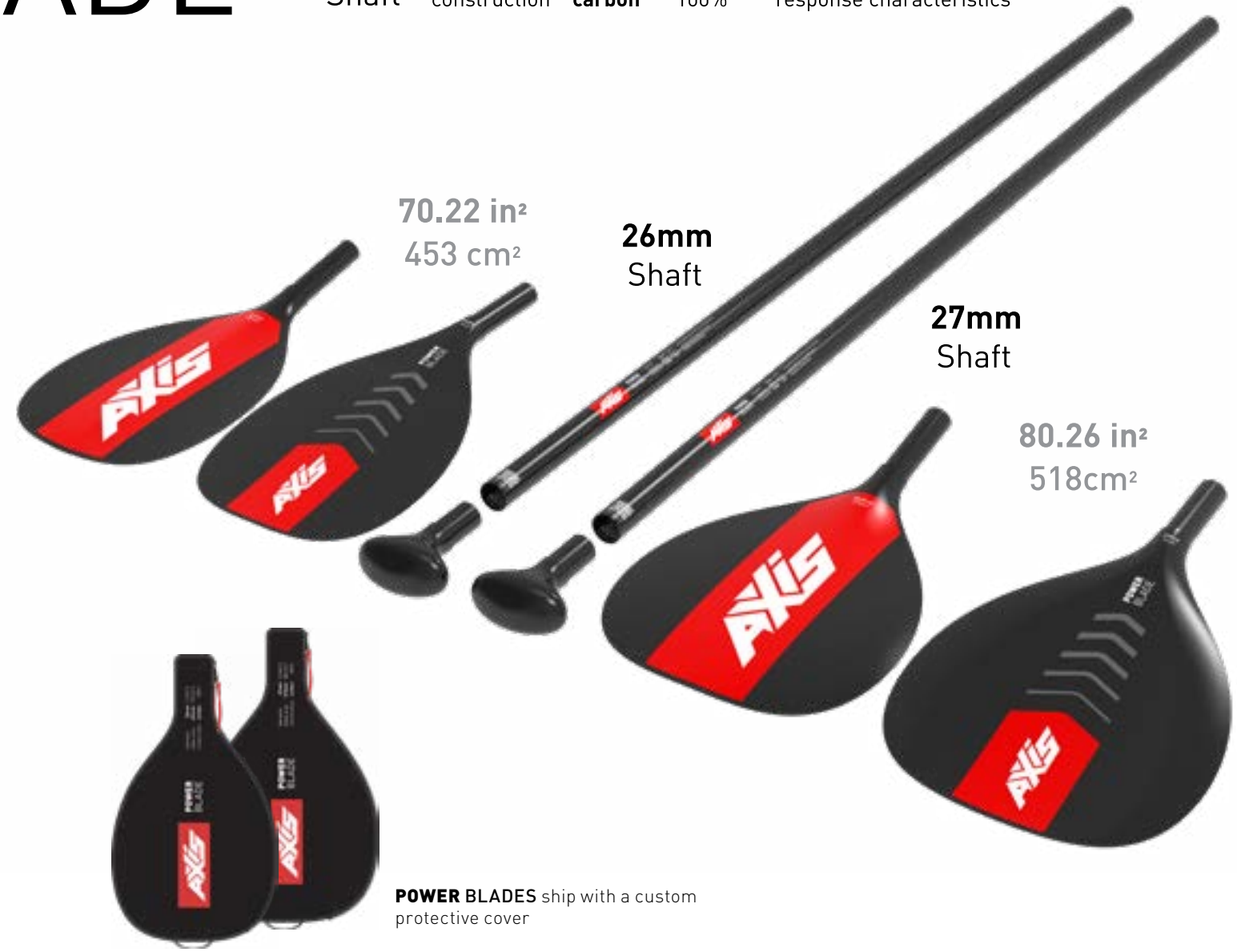
diameter	**26mm**	(1.023”)
blade area	**453cm²**	(70.22”)
construction	**carbon**	100%

Strategically placed off-axis uni-directional carbon fibers for improve flex and response characteristics

27mm Shaft

diameter	**27mm**	(1.063”)
blade area	**518cm²**	(80.26”)
construction	**carbon**	100%

Strategically placed off-axis uni-directional carbon fibers for improve flex and response characteristics



POWER BLADES ship with a custom protective cover

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Bits and pieces

...pimp your ride



Waist Coil Leash 8' S/M

A super comfortable leash that keeps excess length from dangling behind your board and foil. It stays out of the way of your legs and ankles, allowing you to move more freely.

AX22COILEASHWS



Waist Coil Leash 8' L/XL

A super comfortable leash that keeps excess length from dangling behind your board and foil. It stays out of the way of your legs and ankles, allowing you to move more freely.

AX22COILEASHW



STAINLESS Screw and Slider Set

Stainless Steel bolts 4 x M8x25mm, 4 x M8x30mm 4 x sliders.

AX22SLIDERSET



TITANIUM Screw and Toolset Box

A complete set of Titanium screws for our entire foil range, including 4 stainless sliders and Torx tools in both 8M and 6M.

AXTSCRSETBX



STAINLESS Screw and Toolset Box

A complete set of Stainless Steel screws for our entire foil range, including 4 stainless sliders and Torx tools in both 8M and 6M.

AXTSCRSETBX



Shim/Spacer Kit For Rear foil tuning

6 Shims are included, 3 Positive (+0.25, + 0.5, +1.0) and 3 x negative (-0.25, - 0.5, -1.0), these can be stacked to achieve a variety of angles.

AXSHIMKIT

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STAINLESS Screw and Toolset

A complete set of Stainless Steel screws for our entire foil range, including 4 stainless sliders and Torx tools in both 8M and 6M.

AXSSCREWSET



Anti-seize Lubricant

Anti-corrosive and anti-seize lubricant. Inhibits electrolytic corrosion between dissimilar metals that will not break down in salt water.

AX22TEFGEL



Windsurf Tuttle Head

Aluminum Windsurfing Tuttle Head Adapter slips into your tuttle fin box so you can then attach your favorite AXIS Aluminum mast. Fits 19mm masts.

AX22TTLTADPTW



SUP Tuttle Head

Aluminum Tuttle Head Adapter slips into your tuttle fin box so you can then attach your favorite AXIS Aluminum mast. Fits 19mm masts.

AX22TTLTADPT



Carbon Mast & Base Plate Cover

Available in sizes to perfectly fit your AXIS Carbon mast, 76, 86 and 96.

AX22CMASTC0VR76
AX22CMASTC0VR86
AX22CMASTC0VR96



Aluminum Mast & Base Plate Cover

Perfectly fitting both 16mm and 19mm AXIS Aluminum masts, including doodad and base plate. Available in sizes to suit your mast, 45, 60, 68, 75, 82, 90, 105.

AX22AMASTC0VR45
AX22AMASTC0VR60
AX22AMASTC0VR68
AX22AMASTC0VR75
AX22AMASTC0VR82
AX22AMASTC0VR90
AX22AMASTC0VR105



V Front Foot Foil Strap

Light weight, comfortable, webbing reinforced EVA V Front Strap, supplied with TORX T30 screws and retainer washers

AXFOILVSTR



Foil Strap Single

AXFOILSTR



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Screw Guide **Front Wing**

SPITFIRE **(SPITFIRE)**

SIZE	FRONT SCREWS	MIDDLE SCREW	REAR SCREW	PRODUCT CODE
1180	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXSPITFIRE1180
1100	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXSPITFIRE1100
1030	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXSPITFIRE1030
960	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXSPITFIRE960
900	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXSPITFIRE900
840	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXSPITFIRE840
780	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXSPITFIRE780
720	M6 × 14mm	M8 × 16mm	M8 × 16mm	AXSPITFIRE720
670	M6 × 14mm	M8 × 16mm	M8 × 16mm	AXSPITFIRE670

AXIS Research Team V2 **(ART V2)**

SIZE	FRONT SCREWS	MIDDLE SCREW	REAR SCREW	PRODUCT CODE
1099	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXARTV21099
999	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXARTV2999
939	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXARTV2939
879	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXARTV2879
819	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXARTV2819

Pump & Glide V2 **(PNG V2)**

SIZE	FRONT SCREWS	MIDDLE SCREW	REAR SCREW	PRODUCT CODE
1400	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXPNGV21400
1300	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXPNGV21300
1200	M6 × 18mm	M8 × 20mm	M8 × 20mm	AXPNGV21200

Fireball **(FIREBALL)**

SIZE	FRONT SCREWS	MIDDLE SCREW	REAR SCREW	PRODUCT CODE
1750	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXFIREBALL1750
1500	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXFIREBALL1500
1350	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXFIREBALL1350
1250	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXFIREBALL1250
1160	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXFIREBALL1160
1070	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXFIREBALL1070
1000	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXFIREBALL1000
940	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXFIREBALL940
880	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXFIREBALL880

Surge **(SURGE)**

SIZE	FRONT SCREWS	MIDDLE SCREW	REAR SCREW	PRODUCT CODE
1240	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXSURGE1240
1150	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXSURGE1150
1080	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXSURGE1080
1010	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXSURGE1010
950	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXSURGE950
890	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXSURGE890
830	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXSURGE830
780	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXSURGE780
740	M6 × 14mm	M8 × 20mm	M8 × 20mm	AXSURGE740

Complete Screwsets: **AXIS Stainless Screwset** (AX22SSCRSET) or **AXIS Titanium Screwset** (AX22TSCRSET)

Compatible with **Black Fuselage**

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Screw Guide **Rear Wings**

SIZE	FRONT SCREW 4–4.5 Nm	BACK SCREW 4–4.5 Nm	WINGSPAN mm	CHORD mm	PRODUCT CODE
PROGRESSIVE					
475/68	M6 × 22mm	M6 × 22mm	475	68	AX22RWING-475/68
450/67	M6 × 22mm	M6 × 22mm	450	67	AX22RWING-450/67
425/66	M6 × 22mm	M6 × 22mm	425	66	AX22RWING-425/66
400/65	M6 × 22mm	M6 × 22mm	400	65	AX22RWING-400/65
375/64	M6 × 22mm	M6 × 22mm	375	64	AX22RWING-375/64
350/63	M6 × 22mm	M6 × 22mm	350	63	AX22RWING-350/63
325/62	M6 × 22mm	M6 × 22mm	325	62	AX22RWING-325/62
300/61	M6 × 22mm	M6 × 22mm	300	61	AX22RWING-300/61
275/58	M6 × 22mm	M6 × 22mm	275	58	AX22RWING-275/58
250/56	M6 × 22mm	M6 × 22mm	250	56	AX22RWING-250/56
SKINNY					
365/55	M6 × 22mm	M6 × 22mm	365	55	AXSKINNY-365/55
362/50	M6 × 22mm	M6 × 22mm	362	50	AXSKINNY-362/50
360/45	M6 × 22mm	M6 × 22mm	360	45	AXSKINNY-360/45
359/40	M6 × 22mm	M6 × 22mm	359	40	AXSKINNY-359/40
358/35	M6 × 22mm	M6 × 22mm	358	35	AXSKINNY-358/35
SURF SKINNY					
340/50	M6 × 22mm	M6 × 22mm	340	50	AXSKINNY-340/50
320/48	M6 × 22mm	M6 × 22mm	320	48	AXSKINNY-320/48
300/45	M6 × 22mm	M6 × 22mm	300	45	AXSKINNY-300/45
280/43	M6 × 22mm	M6 × 22mm	280	43	AXSKINNY-280/43

Torque Values for attaching AXIS Foil components

Note: These values are intended as a guide, historic tightening and use may effect these values, use discretion and common sense when setting up your equipment. **1.0 Nm = 8.85075 lb-in**

Foil attachment
Front or Rear wings to Alloy Fuselage (Red or Black)
M6 (T30) : **4 - 4.5Nm** (40 lb-in) - all lengths
M8 (T40) : **5.5 - 6Nm** (+/-50 lb-in) - all lengths

Carbon Mast attachment
Carbon Mast to Fuselage (Red or Black)
M8 30mm (T40): **5.5 - 6Nm** (+/-50 lb-in)

Alloy Component attachment
Base Plate to Mast (all sizes)
M8 35mm (T40) **6.0 - 6.5Nm** (+/-50-55 lb-in)
Base Plate to Board using slider (all sizes M25 & M35)
M8 25/35mm (T40) **6.0 - 6.5Nm** (+/-50-55 lb-in)

Fuselage through Doodad to Mast (all sizes)
M8 70mm (T40) **6.0 - 6.5Nm** (+/-50-55 lb-in)

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Assembly Guide
– All components

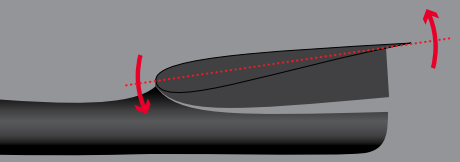


Foil angles & Shims

Demistifying Shims...
When and if you need one, and how it all goes together

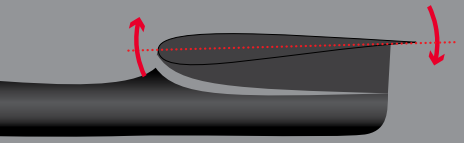
Positive Shimming

(Increasing the angle between front and back wing)



Negative Shimming

(Decreasing the angle between front and back wing)



Let's start with the front wing, it is normally set at an angle upwards from the fuselage.

The angle is measured from the **chord-line** of the foil section relative to the **main-line** through the fuselage. Most of the AXIS front wings are set around 1 degree upwards as this is about the sweet spot for the foil section used. (beginner, or slower foil sections set on a greater angle) More angle up creates more lift more drag, less angle creates less lift less drag. The idea being that the fuselage is as much as possible running at zero degrees through the water when foiling.

Most of the AXIS rear wings are set around 1.5 degrees downwards relative to the main-line of the fuselage. (the lower aspect learner rear wings set at a greater angle down) This creates a force to balance against your front foot pressure so that you can balance on the front wing.

This gives a stock difference between the front and rear wing of 2.5 degrees total. This is the most important number to consider by far. If the rear wing is angled down by an additional 1 degree the difference between the front and rear wing becomes 3.5 degrees and as such should be described as a **positive shim** as 3.5 degrees is greater than the stock 2.5 degrees. If the rear wing is angled down 1 degree less the difference becomes 1.5 degrees and is should be described as **negative shim** or minus shimming as the difference between the front and rear becomes less.

Most riders with a weight of around 85kg riding in normal conditions don't really need or benefit from shimming the rear wing. The foils should ride fine out of the box bolted straight on to the fuselage.

Positive shimming is useful for heavier riders to provide more front foot pressure

Negative shimming is useful for lighter riders as it reduces the front foot pressure and is faster

Regarding baseplate shimming, as described above the front wing rides at an angle, this angle is determined by the size of the foil, your weight and the speed that you are going. (there are more details which affect this but generally speaking)

Two riders different weights going the same speed on the same wing, the heavier rider will have a great angle (foil lifted more at the leading edge) to maintain the required lift whereas the lighter rider will ride at a flatter angle.

When you first take off on a foil you will have a greater angle of attack on the front wing to create the required lift and flatten it off as you go faster. You may even be riding at a negative angle of the front wing when really going fast.

All of this you don't really have to think about as your body adjusts automatically.

If you have too much angle on the front wing it will come up and out of the water. Too small an angle and your board will crash down.

The front wing is bolted to the fuselage and the mast is connected to the fuselage at 90 degrees. The mast is bolted to the baseplate at 90 degrees.

When AXIS builds a board it is generally designed for the 85kg rider (or the correct rider weight for the volume) to use with an AXIS foil in the centre of the finboxes.

The board should feel balanced and ride relatively flat between front and back foot pressure and should not require a base plate shim to correct the angle.

Other brands will mount their boxes at their chosen position for another foil system and angle of the board might not feel quite right.

You can correct this quite easily with a baseplate shim. If you feel or can see watching a video that you are riding nose down or nose up most of the time a baseplate shim is required to correct the angle that the board flys at.

It should feel when you touchdown that the board touches just in front of the baseplate and this helps you pop back up without going off balance. If the angle is not right you will touch down with the nose first or tail first, both resulting in a crash. The baseplate shim can also make the pressure between your feet more comfortable and balanced feeling.

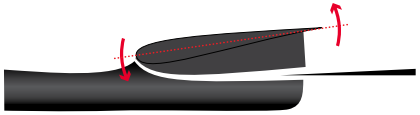


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FRONT FOIL **Up 1°** REAR FOIL **Down 1.5°** **then overall difference is 2.5°**

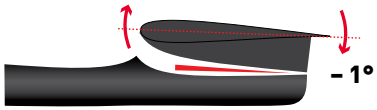
Adding a **Positive** shim (we call it **positive** because it is **increasing** the angle between front and back wing, usually achieved by lifting the back of rear wing) is useful for heavier riders to provide more front foot pressure, can have a slowing effect.



+1° shim

If you add a Positive 1° shim the difference increases to 3.5°

Adding a **Negative** shim (we call it **negative** because it is **decreasing** the angle between front and back wing, usually achieved by lifting the front of rear wing) is useful for lighter riders as it reduces the front foot pressure and can be faster.



– 1° shim

If you add a Negative 1° shim the difference decreases to 1.5°

Our stock setup with no shim is designed to work for the vast majority of riders.

REAR WING
Angle Of Attack To Fuselage **DOWN**

FREERIDE	
500A/90	2.5°
500/90	2.5°
440/90	2.5°
400/90	2.5°
FREERIDE SMALL	
390/80	2.5°
370/80	2.5°
340/80	2.5°
PROGRESSIVE	
475/68	1.5°
450/67	1.5°
425/66	1.5°
400/65	1.5°
375/64	1.5°
350/63	1.5°
325/62	1.5°
300/61	1.5°
275/58	1.5°
250/56	1.5°
PUMP	
460/60	1.5°
SPEED	
420/60	1.5°
380/60	1.5°
400F/60	1.5°
SKINNY	
365/55	1.5°
362/50	1.5°
360/45	1.5°
359/40	1.5°
358/35	1.5°

FRONT WING
Angle Of Attack To Fuselage **UP**

ARTPRO	
1099	1.0°
999	1.0°
899	1.0°
799	1.0°
699	1.0°
ART V2	
999	1.0°
979	1.0°
879	1.0°

Compatible with **SPITFIRE**

1180	1.0°
1100	1.0°
1030	1.0°
960	1.0°
900	1.0°
840	1.0°
780	1.0°
720	1.0°
670	1.0°
620	1.0°

Compatible with **Black Fuselage**

ART	
1099	1.0°
999	1.0°
899	1.0°
799	1.0°
699	1.0°
HPS	
1050	1.0°
980	1.0°
930	1.0°
880	1.0°
830	1.0°
700	1.0°
650	1.0°
BSC	
1120	2.0°
1060	2.0°
970	2.0°
890	2.0°
810	2.0°
740	2.0°
PNG	
1310	2.0°
1300	2.0°
1150	2.0°
1010	2.0°
910	2.0°
910B	2.0°
850	2.0°
SP	
860	2.0°
760	2.0°
660	2.0°

Compatible with **Red Fuselage**

Compatible with **Black Fuselage**

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