CODE FOILS



CODE FOILS PRODUCT BROCHURE

CODE FOILS

Founded by Marcus and Ben Tardrew, an esteemed designer behind Sunova and an industry-leading board shaper and foil designer, alongside Daniel Juengling, a renowned architect and builder with extensive CAD and manufacturing expertise, and James Casey, multiple M20 champion and an accomplished waterman and foiler.

Australian-owned and designed since 2022. Our team share the same passion for flying above the water and are out there testing gear daily so we can produce the best hydrofoils in the world



CHOOSING FOILS....

The following pages highlight our product range. This guide is based on our extensive testing across multiple disciplines and locations around the globe. Be sure to consult with your shop and demonstrate the gear where possible, as there are always exceptions depending on the user's ability, weight, and wind and water conditions.

Our model numbers relate to area, though many factors influence lift, glide, and speed. Therefore, comparing our products to other brands based on area is not always an accurate measure.




810 X

CONTENTS

HIGHLIGHTED DISCIPLINES

Wingfoil
Pronefoil
SUP foil
Downwind SUP Foil
Pump Foil
Parawing
Dock Start

FRONT WINGS

S Series
R Series
X Series

TAIL WINGS

AR Series
R Series

FUSELAGES

MASTS

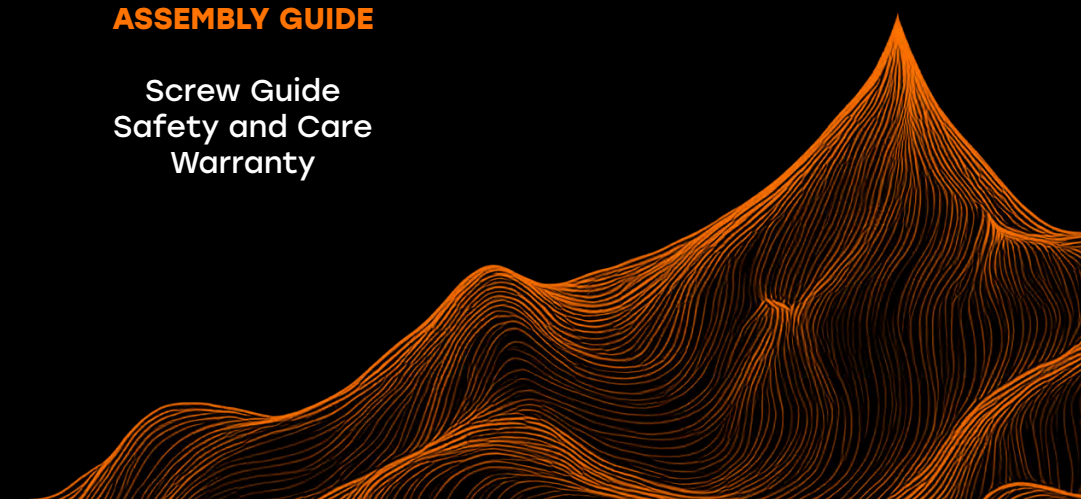
Original Mast
Plus (+) Series
Foildrive Mast
Aluminium Mast

THE CODE PADDLE

THE CODE FOILS TITANIUM BOLT KIT

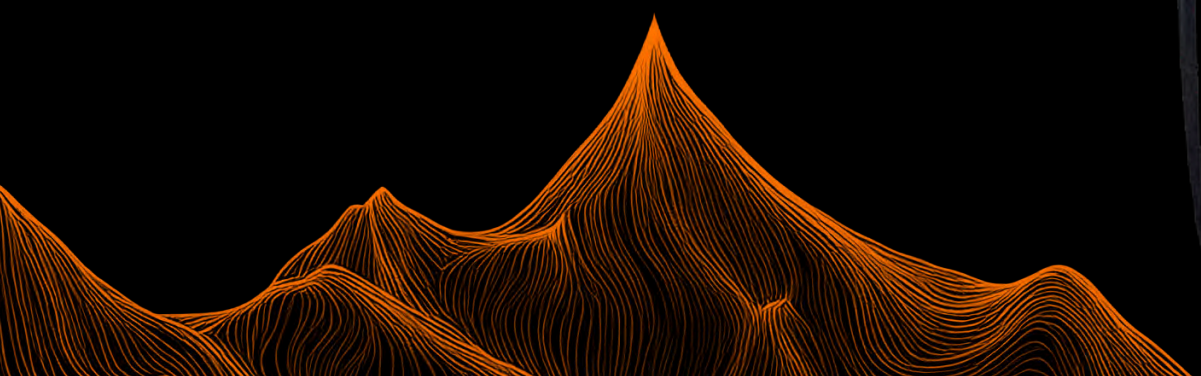
ASSEMBLY GUIDE

Screw Guide
Safety and Care
Warranty



HIGHLIGHTED DISCIPLINES

The Critical Foiling Disciplines





WING FOIL



Code Foils in Wingfoiling

One of the most accessible foiling disciplines is wing foiling, and Code Foils range of foils is incredibly well-suited for it. We recommend the S series front wings. They are stable and very forgiving, yet still provide great top-end speed, glide, and performance. These wings are known for their ability to remain stable even when the tips come out during turns.

Intermediate to advanced riders will be blown away by the responsiveness, speed and maneuverability of the 850S, 720S, and 615S models.

Even the larger foils in the S series have incredible turn ability and maneuverability, for their size.

Longer mast lengths (80cm and 85cm) are recommended for blasting back through the waves and mitigating surface chop.

If a rider is seeking primarily wave riding, intermediate to advanced riders will find the Code Foils' X range a go to option. With even more turn-ability and maneuverability on the critical section of the wave face.

If a Rider is seeking High Speeds, Racing or Downwind Wing foiling, the Code Foils R range will help push those top end speeds and glide faster for longer.

WING FOIL

Foil Sizing Guide

Stronger Winds ⟷ **Lighter Winds**

Adjust sizing depending on wind strength

615S 720S 850S 980S 1130S 1300S 1540S 1725S

Beginner

Rider Weight	<70KG	70 -94KG	>95KG
Front Wing	720S, 850S	980S, 1130S	1300S, 1540S
Tail Wing	142AR, 150AR	150AR, 158AR	166AR, 175AR, 188AR
Fuselage	Medium	Medium	Medium, Large
Mast	80-85cm	80-85cm	80-85cm

Intermediate - Advanced

Rider Weight	<70KG	70 -94KG	>95KG
Front Wing	615S, 720S, 810X, 740X, 700X, 600R, 680R	850S, 980S, 810X , 890X 770R, 860R	1130S, 960R, 985X
Tail Wing	142AR, 150AR	142AR, 150AR	150AR, 166AR
Fuselage	Small - Medium	Small - Medium	Medium - Large
Mast	80-85cm	80-85cm	80-85cm

DO RESEARCH PRIOR TO PURCHASE AS THIS IS ONLY A GUIDE

Light riders should select smaller sizes, larger riders should select the bigger wings in our range. If you're starting out select larger foils. More advanced riders should go smaller!

PRONE FOIL



Code Foils in Prone Foiling

There is a huge variance in the appropriate setup for prone foil, largely dependent on wave conditions. Even the most advanced riders would consider different foils for the intense reef breaks at Margaret River in Western Australia compared to the more mellow sand-bottom breaks in Northern New South Wales.

The 'S' series front wing was designed to excel in prone foil, offering incredible glide to link between waves while still providing plenty of progression and performance on the wave face. Our advanced foilers opt for the 720S coupled with the medium fuse and the 142AR tail. For even tighter and more agressive turns it's worth bolting on the small fuse.

The 'R' series front wing is known for its low drag and incredible glide, making it a great option if extended time on the foil is the goal. It offers a completely different surf experience, akin to a longboard rather than a progressive shortboard.

The 'X' Series front wing was designed for intermediate to advanced riders to perform more radical movements whilst prone foiling. Blurring the lines between surf and foil the X series was designed to push harder in the waves.

Regarding mast length, we suggest the 75cm or 80cm mast. The 80cm mast provides a bit more room to turn aggressively and bank harder without breaching your tips early. However, be cautious with longer masts in shallow locations!

PRONE FOIL

Foil Sizing Guide

Bigger Waves ⟷ **Smaller Waves**

Adjust sizing depending on wave size

615S 720S 850S 980S 1130S 1300S 1540S 1725S

700X 740X 810X 890X 985X

Beginner

Rider Weight	<70KG	70 -94KG	>95KG
Front Wing	720S, 850S	980S, 1130S	1300S, 1540S
Tail Wing	142AR, 150AR	150AR, 158AR	166AR, 175AR, 188AR
Fuselage	Medium	Medium	Medium, Large
Mast	75 - 80cm	75 - 80cm	75 - 80cm

Intermediate - Advanced

Rider Weight	<70KG	70 -94KG	>95KG
Front Wing	615S, 720S, 600R, 680R, 740X	850S, 980S, 770R, 860R, 810X	1130S, 960R, 890X, 980X
Tail Wing	142AR, 150AR	142AR, 150AR	150AR
Fuselage	Small - Medium	Small - Medium	Medium - Large
Mast	75 - 80cm	75 - 80cm	75 - 80cm

DO RESEARCH PRIOR TO PURCHASE AS THIS IS ONLY A GUIDE

Light riders should select smaller sizes, larger riders should select the bigger wings in our range. If you're starting out select larger foils. More advanced riders should go smaller!

SUP FOIL



Code Foils in SUP Foiling

Similar to prone foiling, SUP foiling setups can vary greatly based on wave power and intensity.

The 'S' series front wing is tailored for SUP foil, mirroring its effectiveness in prone foiling. It offers exceptional glide to seamlessly connect waves while maintaining excellent performance on the wave face. Advanced foilers prefer the 720S, combined with a medium fuse and the 142AR tail. For even sharper and more aggressive turns, the small fuse is recommended.

If maximizing time on the foil is your goal, the 'R' series front wing is ideal, known for its low drag and superb glide. It provides a distinct surfing experience, similar to riding a longboard SUP rather than a performance-oriented shorter SUP.

The ‘X’ Series front wings are built for intermediate to advanced riders who want to push more radical, surf-inspired manoeuvres while SUP foiling. Blurring the lines between traditional surf and foil performance, the X Series is designed to drive harder in the waves, stay engaged through powerful turns, and deliver a fast, reactive connection underfoot.

When it comes to mast length, we recommend either a 75cm or 80cm mast. The 80cm option allows for more aggressive turns and deeper banking without the risk of breaching your tips too early. However, be mindful of using longer masts in shallow waters!

SUP FOIL

Foil Sizing Guide

Bigger Waves ⟷ **Smaller Waves**

Adjust sizing depending on wave size

615S 720S 850S 980S 1130S 1300S 1540S 1725S

700X 740X 810X 890X 985X

Beginner

Rider Weight	<70KG	70 -94KG	>95KG
Front Wing	720S, 850S	980S, 1130S	1300S, 1540S
Tail Wing	142AR, 150AR	150AR, 158AR	166AR, 175AR, 188AR
Fuselage	Medium	Medium	Medium, Large
Mast	75 - 80cm	75 - 80cm	75 - 80cm

Intermediate - Advanced

Rider Weight	<70KG	70 -94KG	>95KG
Front Wing	615S, 720S, 600R, 680R, 740X	850S, 980S, 770R, 860R, 810X	1130S, 960R, 890X, 980X
Tail Wing	142AR, 150AR	142AR, 150AR	150AR
Fuselage	Small - Medium	Small - Medium	Medium - Large
Mast	75 - 80cm	75 - 80cm	75 - 80cm

DO RESEARCH PRIOR TO PURCHASE AS THIS IS ONLY A GUIDE

Light riders should select smaller sizes, larger riders should select the bigger wings in our range. If you're starting out select larger foils. More advanced riders should go smaller!

DOWNWIND FOIL



Code Foils in Downwind Foiling

The feeling of downwind foiling is unparalleled, allowing you to harmonize with the ocean's energy and surf effortlessly across open water. This sport involves harnessing wind and ocean swells to achieve continuous, smooth movement, maximizing the ocean's natural energy.

At Code Foils, our products are designed to excel in this dynamic and evolving environment. They continue to lead the way in downwind foiling competitions. The R Wings, in particular, are optimized for open ocean conditions, offering unrivaled efficiency and glide. Moving between energy feels intuitive and secure. The S Series shines in shorter-period, wind-dominated arenas, with the larger S Wings being the preferred choice for large lakes and inland bodies of water with slower-moving energy. The S Series allows for a different, more progressive downwind experience, enabling the rider to carve turns akin to surfing a wave at your local spot.

All ranges of foils provide the stability and control needed to navigate varying ocean conditions, ensuring a smooth ride across vast stretches of water. It's best to consult with your local shop or retailer to determine which wing is suitable for your local conditions and which size you need. It's definitely worth including both an R and S in your personal quiver. It can even be recommended to include a foil from the X series for a more surf like run. Code Foils offers a wide range of sizes, ensuring there's one that's perfect for you.

DOWNWIND FOIL

Foil Sizing Guide

Bigger Bumps ⟷ **Smaller Bumps**

Adjust sizing depending on wave size

615S 720S 850S 980S 1130S 1300S 1540S 1725S

600R 680R 770R 860R 960R 1075R 1250R

Beginner

Rider Weight	<70KG	70 -94KG	>95KG
Front Wing	980S, 1130S	1130S, 1300S	1300S, 1540S, 1725S
Tail Wing	142AR, 150AR	150AR, 158AR	166AR, 175AR, 188AR
Fuselage	Medium	Medium	Medium, Large
Mast	75 - 80cm	75 - 80cm	75 - 80cm

Intermediate - Advanced

Rider Weight	<70KG	70 -94KG	>95KG
Front Wing	615S, 720S, 600R, 680R,	850S, 980S, 770R, 860R,	1130S, 960R,
Tail Wing	110R, 120R,	120R, 135R	135R, 151R
Fuselage	Small - Medium	Small - Medium	Medium - Large
Mast	75 - 80cm	75 - 80cm	75 - 80cm

DO RESEARCH PRIOR TO PURCHASE AS THIS IS ONLY A GUIDE

Light riders should select smaller sizes, larger riders should select the bigger wings in our range. If you're starting out select larger foils. More advanced riders should go smaller!



Code Foils in Parawinging

Foiling has always been about innovation and pushing boundaries and the latest evolution is parawinging. Riders are discovering fresh lines across coastlines, lakes, and mountain valleys, blending elements of surf, winging, and downwinding into one discipline.

At Code Foils, our designs naturally lend themselves to this new movement. The S Series delivers early lift and stability, perfect for smooth, controlled take-offs and sustained glides. The X Series brings unmatched roll response and precision, helping riders carve dynamic turns. And for those chasing efficiency over long distances, or looking to downwind in fast bumps the R Series offers the speed and glide needed.

With high modulus construction across our ranges, Code foils maintain stiffness and responsiveness under load, giving riders the confidence to push into this emerging discipline.

Code Foils are built to take parawinging further.

PARAWING

Foil Sizing Guide

Bigger Bumps ⟷ **Smaller Bumps**

Adjust sizing depending on wave size

615S 720S 850S 980S 1130S 1300S 1540S 1725S

600R 680R 770R 860R 960R 1075R 1250R

Beginner

Rider Weight	<70KG	70 -94KG	>95KG
Front Wing	980S, 1130S	1130S, 1300S	1300S, 1540S, 1725S
Tail Wing	142AR, 150AR	150AR, 158AR	166AR, 175AR, 188AR
Fuselage	Medium	Medium	Medium, Large
Mast	75 - 80cm	75 - 80cm	75 - 80cm

Intermediate - Advanced

Rider Weight	<70KG	70 -94KG	>95KG
Front Wing	615S, 720S, 680R,	850S, 980S, 770R, 860R,	1130S, 960R,
Tail Wing	110R, 120R,	120R, 135R	135R, 151R
Fuselage	Small - Medium	Small - Medium	Medium - Large
Mast	75 - 80cm	75 - 80cm	75 - 80cm

DO RESEARCH PRIOR TO PURCHASE AS THIS IS ONLY A GUIDE

Light riders should select smaller sizes, larger riders should select the bigger wings in our range. If you're starting out select larger foils. More advanced riders should go smaller!

DOCK START



Code Foils in Dock Starts

Dock Starts or Pump Foiling is a discipline where you generate your own glide using your own energy by pushing down on your board and then unweighting to allow the foil to lift and glide.

Code has designed a designated Pump Foil Series- The Kanga Series. Each foil within this series has been perfectly tuned for pump foiling progression and advanced pump foilers. The Code Foils S and R series can also be used if you are chasing more glide or more of a surf style feel.

From our testing, we've found that with these large foils, pairing them with a small fuselage and small tails, such as the 142AR and 135R, gives you more control over the larger surface area of the front foil.

The goal is not only to be able to launch from a jetty or beach but also to pump out to a wave or a passing boat and ride the energy.

Code's wings are better suited to a launch site where the user can get a small run-up to generate a little speed. This technique allows the user to use a slightly smaller foil than other brands, and when they reach a wake or wave zone, they have the added ability to turn and maneuver.

Always foil safely and take care. It's the user's responsibility to ensure their own safety and the safety of those around them.

DOCK START

Foil Sizing Guide

Lighter Rider ⟷ **Heavier Rider**

1390 KANGA 1600 KANGA 1870 KANGA 2220 KANGA

850S 980S 1130S 1300S 1540S 1725S

600R 680R 770R 860R 960R 1075R 1250R

Beginner

Rider Weight	<70KG	70 -94KG	>95KG
Front Wing	1390 Kanga	1600 Kanga	1870 Kanga 2220 Kanga
Tail Wing	142AR, 150AR	150AR, 158AR	166AR, 175AR, 188AR
Fuselage	Medium	Medium	Medium, Large
Mast	75 - 80cm	75 - 80cm	75 - 80cm

Intermediate - Advanced

Rider Weight	<70KG	70 -94KG	>95KG
Front Wing	850S- 1130S, 1300 Kanga	1130S, 860R, 1300 Kanga	1130S, 960R, 1600
Tail Wing	110R, 120R,	120R, 135R	135R, 151R
Fuselage	Small - Medium	Small - Medium	Medium - Large
Mast	75 - 80cm	75 - 80cm	75 - 80cm

DO RESEARCH PRIOR TO PURCHASE AS THIS IS ONLY A GUIDE

Light riders should select smaller sizes, larger riders should select the bigger wings in our range. If you're starting out select larger foils. More advanced riders should go smaller!

FOIL DRIVE



Code Foils and Foil Drive

Foil Drive opens up a whole new way to experience foiling, giving riders the ability to get on foil earlier and explore conditions that would otherwise be difficult or impossible to ride.
By providing controlled electric assistance, riders can focus more on positioning, balance, and flow rather than relying purely on wave or wind power.

The Foil Drive system allows riders to pair almost any foil depending on the style of foiling they intend to do. For more powered riding, the Code Foils S Series is the perfect fit, offering a versatile range of sizes that provide stable lift and efficient glide.

When starting out with Foil Drive, we recommend beginning with the larger sizes such as the 980S or 1130s, as they make getting up on foil easier and allow riders to learn how to manage the power and throttle control.

If a rider is looking to get more into wave riding and use the Foil Drive primarily as an assist, they may look towards the smaller S Series wings or the more performance-oriented X Series foils. These smaller, faster foils allow for tighter turns and a more surf-oriented feel once the rider transitions from powered assistance to natural glide on the wave.

The Code Foils R series can also be a great foil paired with the Foil Drive for a longer glide and pump when unassisted.

FOIL DRIVE

Foil Sizing Guide

Bigger Waves ⟷ **Smaller Waves**

Adjust sizing depending on wave size and skill

615S 720S 850S 980S 1130S 1300S 1540S 1725S

700X 740X 810X 890X 985X

Beginner

Rider Weight	<70KG	70 -94KG	>95KG
Front Wing	980S	1130S, 1300S	1300S, 1540S
Tail Wing	142AR, 150AR	150AR, 158AR	166AR, 175AR, 188AR
Fuselage	Medium	Medium	Medium, Large
Mast	78cm / 17 cm integrated mast	78cm / 17 cm integrated mast	78cm / 17 cm integrated mast

Intermediate - Advanced

Rider Weight	<70KG	70 -94KG	>95KG
Front Wing	615S, 720S, 740X, 810x	850S, 980S, 810X, 890x,985x	1130S, 810x, 890X, 985X
Tail Wing	142AR, 150AR	142AR, 150AR	150AR
Fuselage	Small - Medium	Small - Medium	Medium
Mast	78cm / 11 cm integrated mast	78cm / 11 cm integrated mast	78cm / 17 cm integrated mast

DO RESEARCH PRIOR TO PURCHASE AS THIS IS ONLY A GUIDE

Light riders should select smaller sizes, larger riders should select the bigger wings in our range. If you're starting out select larger foils. More advanced riders should go smaller!

KITE FOIL



Code Foils and Kite Foiling

Code Foils offers a range of front wings suited to everything from your first kite foil sessions through to high-speed freeride and aggressive carving.

The S Series is an excellent choice for riders looking for a predictable, efficient and easy-to-control kite foil. Its smooth lift and excellent glide make it ideal for progressing your skills, riding in lighter winds and cruising with minimal effort.

For kite foiling, the 720S, 850S and 980S are great all-round options, with the smaller sizes offering increased speed and manoeuvrability for more experienced riders.

Best for: Progression • Freeride • Light Wind • Long-Distance Riding

For experienced kite foilers looking for a more dynamic ride, the X Series delivers increased manoeuvrability and a more responsive, surf-inspired feel.

The higher aspect ratio design provides excellent speed and efficiency, while the refined shape allows for tight, controlled turns and aggressive carving. The 700X, 740X and 810X are particularly well suited to experienced kite foilers looking to ride faster and push their turns further.

KITE FOIL

Foil Sizing Guide

Stronger Wind ⟷ **Lighter Wind**

Adjust sizing depending on wave size and skill

615S 720S 850S 980S 1130S 1300S 1540S 1725S

700X 740X 810X 890X 985X

Beginner

Rider Weight	<70KG	70 -94KG	>95KG
Front Wing	980S	1130S, 1300S	1300S, 1540S
Tail Wing	142AR, 150AR	150AR, 158AR	166AR, 175AR, 188AR
Fuselage	Medium	Medium	Medium, Large
Mast	80 - 95 mast	80 - 95 mast	80 - 95 mast

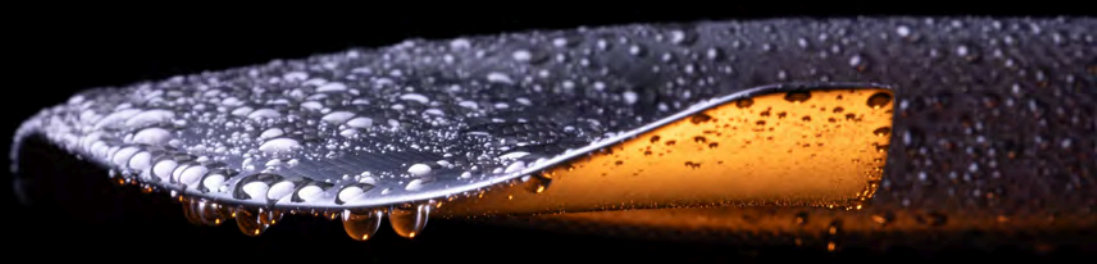
Intermediate - Advanced

Rider Weight	<70KG	70 -94KG	>95KG
Front Wing	615S, 720S, 740X, 810x	850S, 980S, 810X, 890x,985x	1130S, 810x, 890X, 985X
Tail Wing	142AR, 150AR	142AR, 150AR	150AR
Fuselage	Small - Medium	Small - Medium	Medium
Mast	80 - 95 mast	80 - 95 mast	80 - 95 mast

DO RESEARCH PRIOR TO PURCHASE AS THIS IS ONLY A GUIDE

Light riders should select smaller sizes, larger riders should select the bigger wings in our range. If you're starting out select larger foils. More advanced riders should go smaller!





FRONT WINGS

A Detailed Breakdown of Codes Front Wings and Sizes

X SERIES FRONT WING

Codes Surf Front Wing

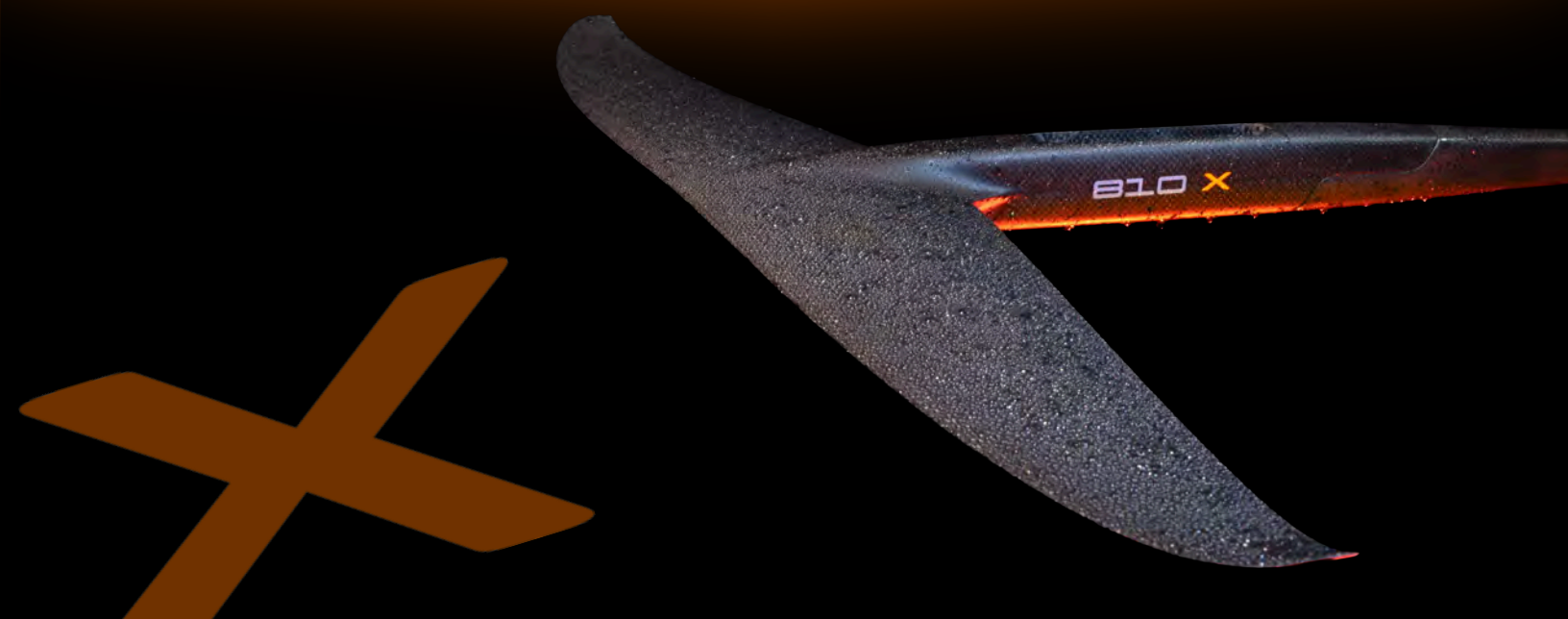
Whether you are Parawinging, wingfoiling, downwinding or hitting the waves, the 810x will bring a surf like feeling to every manoeuvre.

The 810X is a surf-first foil, created for high-speed carving, tight rail-to-rail transitions, and full commitment in critical sections.

Featuring an aggressive anhedral for lightning-fast roll control and refined wing tips for added stability through breaches, the 810X delivers next-level responsiveness without compromising control. A smooth, progressive lift profile allows riders to take off cleanly in heavier, steeper sections, staying in control when it matters most.

Designed for intermediate to advanced foilers, the X Series is for foilers who want more response, more aggression, and more connection to the water in wind and wave.

SIZE	SPAN (mm)	SPAN (in)	AREA (cm^2)	AREA (in^2)	ASPECT RATIO
700X	755 mm	29.7 in	700 cm^2	108.5 in^2	8.2
740X	780 mm	30.7 in	740 cm^2	114.7 in^2	8.2
810X	814 mm	32 in	810 cm^2	125.55 in^2	8.2
890X	852 mm	33.5 in	890 cm^2	138.0 in^2	8.2
985X	896 mm	35.28 in	985 cm^2	152.7 in^2	8.2
1085X	940mm	37 in	1085 cm^2	168.2 in^2	8.2
1195X	987mm	38.9in	1190 cm^2	184.45 in^2	8.2



S SERIES FRONT WING

Codes All Round Front Wing

The S Series is a wing for everybody and every discipline. Code has designed this foil with a foil section that provides early smooth and predictable lift.

With a mid to high aspect ratio and a high lift foil section the rider is able to use a smaller area foil to give more maneuverability, extreme glide and pumping efficiency to flow through turns and connect as many waves as you like.

When pushed in the surf the wing tips will breach with ease and control and ride out of white water sections with confidence and stability under foot.

SIZE	SPAN (mm)	SPAN (in)	AREA (cm^2)	AREA (in^2)	ASPECT RATIO
500S	695 mm	27.3 in	500 cm^2	77.5 in^2	9.5
615S	765 mm	30.1 in	615 cm^2	95 in^2	9.5
720S	830 mm	32.7 in	720 cm^2	112 in^2	9.5
850S	900 mm	35.4 in	850 cm^2	132 in^2	9.5
980S	965 mm	38.0 in	980 cm^2	152 in^2	9.5
1130S	1035 mm	40.55 in	1130 cm^2	175 in^2	9.5
1300S	1115 mm	43.9 in	1300 cm^2	201.5 in^2	9.5
1540S	1210 mm	47.6 in	1540 cm^2	238.7in^2	9.5
1725S	1280 mm	50.4 in	1725 cm^2	267.4 in^2	9.5

- The ultimate all round wing, beginner to advanced
- Prone, Wing, SUP or even Downwind this foil excels in all disciplines of foiling.
- Adept in critical sections as well as drawing smooth flowing lines.
- Suitable for all levels of rider.
- The High Modulus 1300, 1540 and 1725 are the go-to wing for heavier riders in all disciplines.
- Currently available in eight sizes 615, 720, 850, 980, 1130 and 1300, 1540 and 1725



R SERIES FRONT WING

Codes Downwind Front Wing

The R-Series Front Wings by Code Foils are specifically designed for downwind SUP foiling. They include models such as the 860R High Modulus and 770R High Modulus, which have proven their performance and efficiency in major racing competitions like the Molokai 2 Oahu Downwind World Championship and Paddle Imua race in Hawaii where James Casey won using these foils.

The series also includes larger sizes like the 960R and 1075R, which are ideal for learners due to their user-friendly nature and for experienced riders who aim to foil in nearly windless conditions.

Constructed from High Modulus carbon, these wings are recognized for their lightweight build and exceptional stiffness, making them suitable for high-speed and long-distance downwind foiling. The design focuses on a wide speed range and efficient pumping, although they are less maneuverable compared to the S series

The series is scaled, keeping a familiarity as users move from size to size.

SIZE	SPAN (mm)	SPAN (in)	AREA (cm^2)	AREA (in^2)	ASPECT RATIO
600R	880 mm	34.6 in	600 cm^2	93.0 in^2	13.0
680R	935 mm	36.8 in	680 cm^2	105.4 in^2	13.0
770R	1000 mm	39.4 in	770 cm^2	119.3 in^2	13.0
860R	1050 mm	41.3 in	860 cm^2	133.0 in^2	13.0
970R	1115 mm	43.9 in	970 cm^2	148.8 in^2	13.0
1075R	1180 mm	46.5 in	1075 cm^2	166.6 in^2	13.0
1250R	1275 mm	50.2 in	1250 cm^2	193.8 in^2	13.0

- The 600R is constructed in Ultra High Modulus Carbon for maximum stiffness



KANGA SERIES FRONT WING

Codes Pump Foil Wing

The Kanga Series was designed to make pump foiling more accessible, intuitive and addictive than ever before. Built around an ultra-low stall speed and forgiving lift profile, Kanga gives riders more time to react, recover and build confidence on foil.

The Kanga's stable and predictable nature accelerates progression while maximising time on foil. Instead of waiting for perfect wind or waves, Kanga opens up a new way to use the water every day.

Designed for dock starts, flat-water pumping, paddle-ups and ultra-light wind riding, the Kanga range transforms calm mornings, local docks and sheltered waterways into endless opportunities to ride.

From first-time foilers to dedicated pump enthusiasts chasing longer runs, Kanga delivers confidence-building performance with a focus on fun, progression and maximum ride time.

SIZE	SPAN (mm)	SPAN (in)	AREA (cm^2)	AREA (in^2)	ASPECT RATIO
1390KANGA	1300 mm	51.18 in	1390 cm^2	215.5 in^2	12.1
1600KANGA	1300 mm	51.18 in	1600 cm^2	248 in^2	10.6
1870KANGA	1300 mm	51.18 in	1870 cm^2	289.9 in^2	9.1
2220KANGA	1700 mm	66.9 in	2220 cm^2	344.1 in^2	13



CODE FOILS

Front Wing Lift Guide

LESS LIFT

MORE LIFT

Lift (Low to High)	X Series	S Series	R Series	Kanga Series
		500S		
	700X			
		615S	600R	
	740X	720S	680R	
	810X			
	890X		770R	
		850S		
	985X			
	1085X			
			860R	
	1195X	980S		
			960R	
		1130S		
			1075R	
		1300S		
			1250R	
		1540S		
		1725S		1390
				1600
				1870
				2220

X Series	S SERIES	R Series	KANGA Series
Performance	All Round	Glide	Pump

TAIL WINGS

A Detailed Breakdown of Codes Tail Wings and Sizes



AR SERIES TAIL WING

Codes All Round Tail wing

The AR Series Tail Wings from Code Foils are designed to cater to foilers of all skill levels, providing a smooth and predictable experience that boosts rider confidence across various foiling disciplines such as carving, jumping, and downwind riding.

Available in six sizes (142AR, 150AR, 158AR, 166AR, 175AR, 188AR), these wings are crafted to offer a consistent feel while delivering excellent glide and carving capabilities.

The larger sizes, 175AR and 188AR, are particularly suited for beginners or heavier riders who require more stability and a lower stall speed to maintain height and power on the foil. This range is praised for its versatility and efficiency, making it a top choice for those seeking to enhance their foiling performance across multiple conditions and styles

SIZE	SPAN (mm)	SPAN (in)	AREA (cm^2)	AREA (in^2)	ASPECT RATIO
142AR	340 mm	13.4 in	142 cm^2	22.0 in^2	8.64
150AR	360 mm	14.2 in	150 cm^2	23.3 in^2	8.64
158AR	380 mm	15.0 in	158 cm^2	24.5 in^2	8.64
166AR	400 mm	15.7 in	166 cm^2	25.7 in^2	8.64
175AR	420 mm	16.5in	175 cm^2	27.1 in^2	8.64
188AR	450 mm	17.7 in	188 cm^2	29.1 in^2	8.64



R SERIES TAIL WING

Codes Ultimate Glide Tails

The R Series Tail Wings from Code Foils are engineered for exceptional glide and efficiency. Available in three sizes, 120R, 135R &151R, these high-aspect-ratio tail wings are optimized for use with both S and R series front wings, enhancing performance with a compact form. The design ensures superior stiffness and reliability across all disciplines, making them ideal for foilers seeking high performance.

These tails can be used across all disciplines of foiling. We recommend no shim in the tail.

SIZE	SPAN (mm)	SPAN (in)	AREA (cm^2)	AREA (in^2)	ASPECT RATIO
110R	340 mm	13.4 in	110 cm^2	17.1 in^2	10.8
120R	360 mm	14.2 in	120 cm^2	18.6 in^2	10.8
135R	380 mm	15.0 in	135 cm^2	20.9 in^2	10.8
151R	400 mm	15.7 in	151 cm^2	13.4 in^2	10.8



RACE SERIES TAIL WING

Codes Designated Race Tails

The new Code Race 100 and 119 Tails have been designed for racing and high speeds. A focused, high-performance addition to the range for riders chasing maximum efficiency in a straight-line, high-speed environment.

Constructed from a higher modulus carbon than the existing Code Foils tail ranges for increased performance.

Where the current R Series balances speed, glide, and versatility for many conditions, the Race Tails are purpose-built for one thing: high performance in race scenarios.

SIZE	SPAN (mm)	SPAN (in)	AREA (cm²)	AREA (in²)	ASPECT RATIO
100 RACE	399 mm	15.71 in	100 cm²	15.5 in²	16.3
119 RACE	400 mm	15.74 in	119 cm²	18.4 in²	14.8



RACE

CODE FOILS

Tail Wing Lift Guide

LESS LIFT

MORE LIFT

Lift (Low to High)	AR	R	Race
			100
		110	
		120	119
		135	
	142		
	150		
		151	
	158		
	166		
	175		
	188		

Pump/Surf | All Round | Performance



James on the 850S Front Wing paired with the 150AR tail.

FUSELAGES

A Detailed Breakdown of Codes Fuselages

FUSELAGES

Codes Range of Fuselages

The Code Foils Fuselage is designed with versatility and performance in mind, available in five different lengths: 2x - small, x-small, small, medium, and large.

This range allows users to customize their setup based on their riding style and conditions.

The 2x -small to small fuselages are ideal for riders looking for high maneuverability and a faster cadence pump, while the large fuselage provides greater pitch stability, beneficial for learners and downwind foilers who prefer a slower pump for stability.

Each fuselage incorporates a unique joining system that ensures zero movement at the joints, enhancing the overall strength and stiffness of the setup.

Additionally, the tail mounting plate is designed to accommodate various tail wings with m6 bolts spaced 30mm apart, allowing further customization



We measure fuse length from front of mast.

2XS	EXTRA EXTRA SMALL	420mm	16.54 inch
XS	EXTRA SMALL	450mm	17.7 inch
SML	SMALL	480mm	18.9 inch
MED	MEDIUM	510mm	20.1 inch
LGE	LARGE	540mm	21.2 inch



MASTS

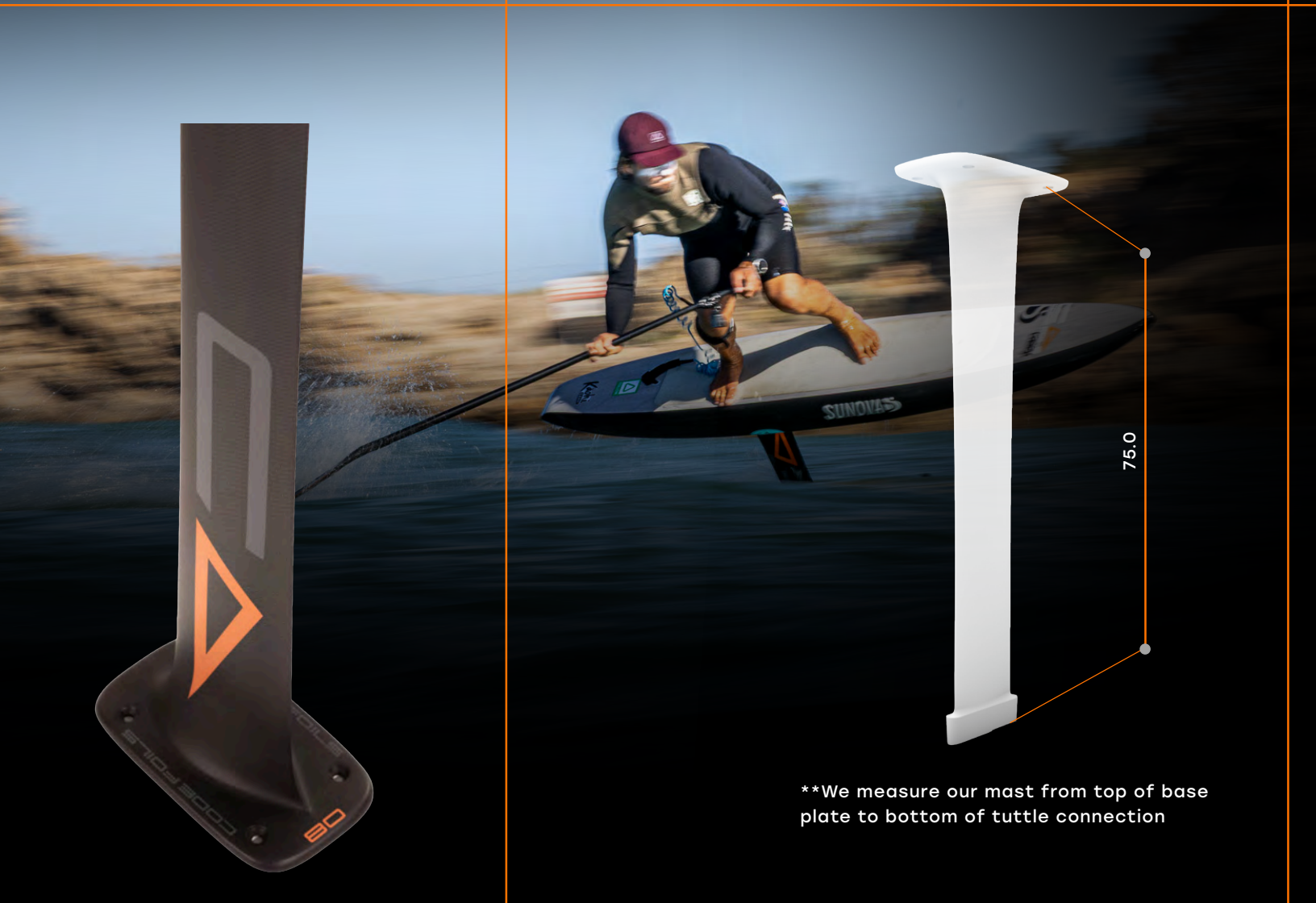
A Detailed Breakdown of Codes Mast Range

THE CODE MAST

HIGH MODULUS

The High Modulus Mast from Code Foils is crafted from high modulus carbon, providing exceptional stiffness and strength. It is recognized as one of the stiffest masts available in its price range, ensuring robust performance without compromising quality. This product features a unique design with an extended blend to base plate for enhanced stiffness and tapered bottom to improve glide and efficiency. It comes in three sizes: 75cm, 80cm and 85cm, specifically designed to optimize glide and energy efficiency while minimizing unwanted movements.

SIZES	
75cm	Good option for shallow areas, prone, downwind, dock
80cm	Allows more bank in the turn, one mast quiver option between disciplines.
85cm	Wing foil, bigger surf and tow



**We measure our mast from top of base plate to bottom of tuttle connection

THE CODE 'PLUS' + MAST

ULTRA HIGH MODULUS

The PLUS MAST SERIES is the latest development by Code in masts. This Ultra High Modulus Mast from Code Foils has incredible stiffness in both torsion and flexion. It is crafted from ultra high modulus carbon with consideration in its layering to ensure the best possible product.
It features the same distinctive design and comes from the same mold as the original mast. It features the same extended blend to the base plate and a tapered thinned bottom to improve glide and efficiency when high on the mast. Available in Four sizes: 75cm, 80cm, 85cm and 95cm this mast is specifically engineered to optimize glide and energy efficiency while minimizing unwanted movements.

The Plus Masts exhibit a massive 41% increase in torsional stiffness from our original mast series and a 59% increase in flexural stiffness compared to our original high modulus standard masts.

SIZES	
75cm	Good option for shallow areas, prone, downwind, paddle ups and dock
80cm	Allows more bank in the turn, one mast quiver option between all disciplines.
85cm	Added length for Wind Disciplines, Bigger Surf, E-foiling and Tow Foiling
95cm	Designed for big wave Tow, E - Foiling and Wind Disciplines





THE CODE BLACK SERIES MAST

AEROSPACE-GRADE UHM CARBON LAYUP

Our most refined and highest-performing all-round mast to date.

Inspired by knowledge and expertise across worldwide foiling disciplines, the Black Series combines military grade ultra high modulus carbon construction and a progressive tapered profile to deliver unmatched stiffness, efficiency and control.

Designed for Speed & Control

The progressive tapered profile redistributes material where stiffness is needed most while reducing drag through the submerged section of the mast.

At just 105mm at its narrowest point, the Black Series is the narrowest mast in the Code Foils range.

The refined profile reduces drag while maintaining the control and predictability demanded by every foiling discipline.

SIZES	
75cm	Good option for shallow areas, prone, downwind, paddle ups and dock
80cm	Allows more bank in the turn, one mast quiver option between all disciplines.
85cm	Added length for Wind Disciplines, Bigger Surf, E-foiling and Tow Foiling



BLACK SERIES

TECHNICAL SPECIFICATIONS

Aerospace-grade UHM Carbon

From the carbon layup to the refined profile and titanium interface, every design decision has been made with one goal in mind: creating a mast that feels incredibly direct beneath your feet while maintaining the versatility riders have come to expect from Code Foils.

Tapered Profile for Added Efficiency

- 105mm Cord at the Narrowest Point





85cm - Thickness 14.2mm
27% stiffer
5% torsional stiffer
Compared to the 85 Plus



80cm - Thickness 14.0mm
19% stiffer
5% torsional stiffer,
Compared to the 80 Plus



75cm - Thickness 13.6mm
8% stiffer
9% torsional stiffer,
Compared to the 75 Plus

***Thickness Measured at Narrowest Point**

THE CODE FOILS X FOIL DRIVE INTEGRATED MAST

ULTRA HIGH MODULUS

The Code x Foil Drive Integrated Mast represents a new pinnacle in mast design. Built from Ultra High Modulus carbon with an all-new layup engineered specifically for the demands of powered riding, this mast delivers unmatched stiffness, responsiveness, and control.

A completely redesigned hydrodynamic profile, streamlined base plate, and seamless pod integration work together to reduce drag and increase efficiency, giving riders faster acceleration, cleaner water flow, and a more powerful, connected feel underfoot.

With the Foil Drive pod positioned 11mm forward of the trailing edge for optimal balance and stiffness, and a fully integrated bolt interface for direct mast-to-unit connection, this mast is purpose-built for riders who want the ultimate in performance, precision, and ride quality.

Each mast is 78cm. Available in two Pod sizes, each designed to maximise performance across a wide range of conditions and rider profiles.

POD HEIGHTS	
11cm	High-performance riders, prone surf, advanced downwind, and riders seeking maximum responsiveness and minimal drag.
17cm	Confidence-inspiring for a wide range of riders. Perfect for everyday use, broader weight ranges, and those wanting maximum ease of use with a balanced, powerful assist feel. Easier option for upwind riding





POD HEIGHTS AND MAST LENGTH

The Code x Foil Drive Integrated Mast is available in two pod height options, each designed to optimise performance for different riders, conditions, and use cases. While both options share the same mast height and construction, pod placement has a meaningful impact on ride feel, efficiency, and control.

The 11cm pod height is designed for riders prioritising performance and responsiveness. By positioning the pod higher on the mast, drag is reduced and has a closer feel to traditional foiling. This option is best suited to lighter riders, advanced foilers, and surf-focused use, where tight turns, fast response, and a direct connection to the foil are the priority.

The 17cm pod height is designed for stability, efficiency, and broader rider compatibility. This pod position provides a more forgiving ride feel, particularly during powered riding and motoring upwind. This option is ideal for everyday riders, heavier riders, and those using Foil Drive across a wider range of conditions including flat water, downwind, and longer assisted sessions.

Both pod heights and the specific 78cm mast length have been extensively tested by Code Foils ambassadors Josh Ku and James Casey across all foiling disciplines. Proven that these are the optimal pod heights and mast lengths for ultimate performances.



THE CODE X FOIL DRIVE INTEGRATED MAST

Contents

When purchasing your Code Foils X Foil Drive Integrated Mast. You will receive the following items

- **Carbon Code X Foil Drive Integrated Mast**
- **Mast Cover**
- **Integrated Mast Bolt Kit**
  - Code T30 Tool
  - 2 x M6 T30 30MM BOLTS FOR FUSELAGE CONNECTION
- **Foil Drive Motor Bolt Pack**
  - 2 x M8 Titanium Integrated Mast Bolts
  - 4 x M4 10mm bolts - For motor to mast installation
- **Puck Hardware**
  - 1x M5 52mm Titanium CSK Screw
  - 1x M5 20mm Titanium Barrel Nut



***Please Note - Foil Drive Motor and Battery are not included with the Code Foils Integrated mast.**

THE CODE ALUMINIUM MAST SIZING AND SPECS

With a 120mm chord and 18.7mm thickness, the mast strikes a carefully balanced profile that offers excellent rigidity, efficiency, and durability, performing well above typical entry-level aluminium masts

Code offers two Aluminium mast heights

75cm

Designed for shallow water environments, prone surf, and riders spending time in the impact zone. The shorter mast offers less drag, easier control at lower speeds, and reduced risk in shallow or turbulent conditions. It's a forgiving option that builds confidence for newer riders, while still performing exceptionally well for experienced foilers in surf and downwind scenarios where agility and control are key.

80cm

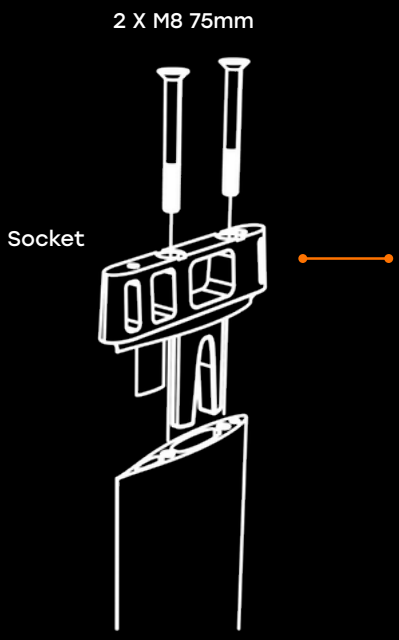
The true all-rounder in the lineup. The added length provides increased clearance in choppy water, improved stability at speed, and greater freedom to lean into turns without breaching. Well suited to a wide range of disciplines including surf, parawing, wingfoiling, tow foiling, and Foil Drive use, the 80cm mast is the go-to choice for riders looking for maximum versatility across varying conditions.



ASSEMBLY GUIDE

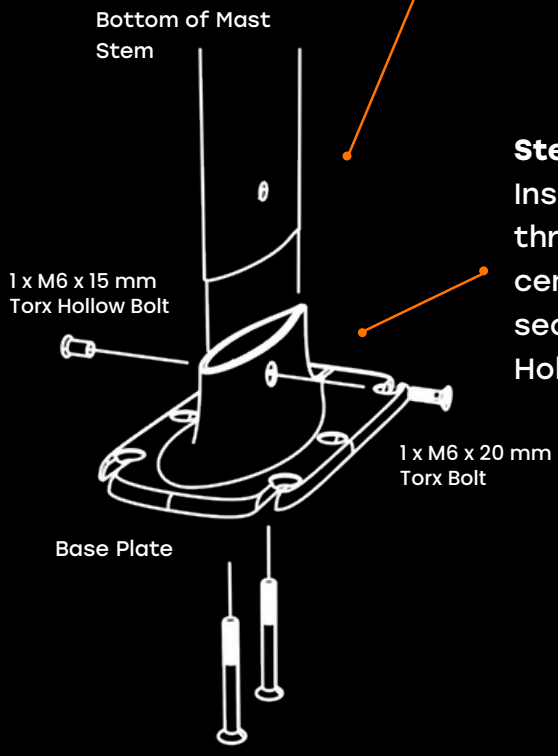
Follow the below instructions to assemble your Code Foils Aluminium Mast:

*Please Note - Aluminum Mast components are sold separately

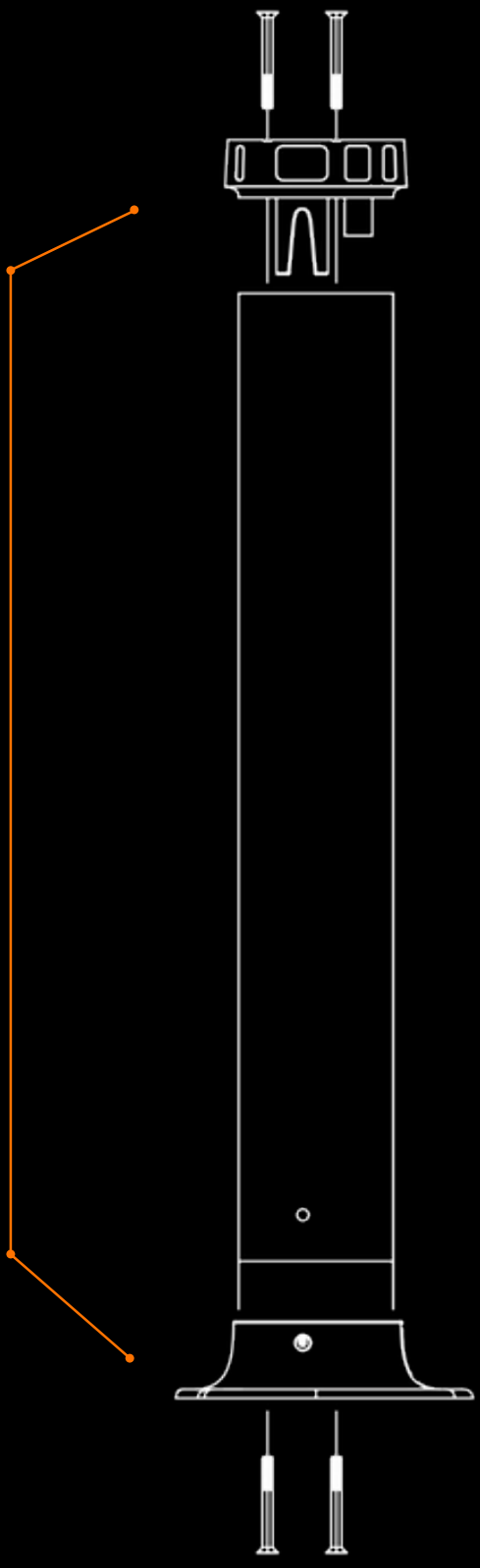


Step One -
Insert the socket into the top of your Aluminium Mast stem, secure into place with 2 X M8 75mm Torx Bolts.

Step Two -
Insert the base plate onto the bottom of your Aluminium Mast stem. Secure into place with 2 X M8 75mm Torx Bolts



Step Three -
Insert 1 x M6 20mm Torx Bolt through the bolt hole in the centre of the base plate and secure with M6 15mm Tor Hollow Bolt on the other side.



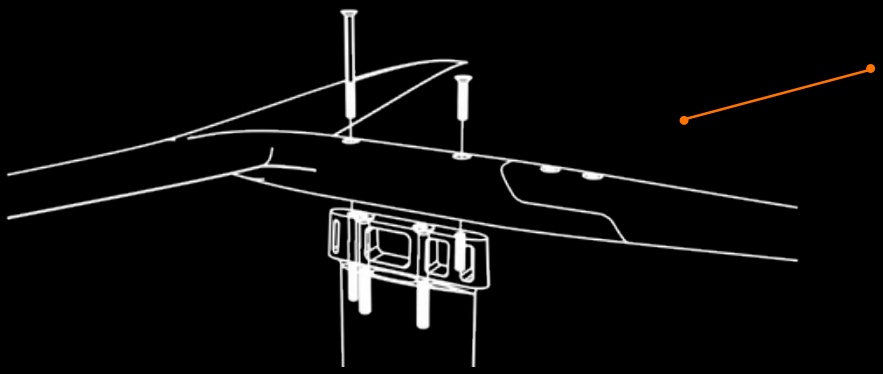
*DO NOT OVER TIGHTEN THE SCREWS. STRIPPED THREADS ARE NOT COVERED BY WARRANTY

Continued

ASSEMBLY GUIDE

Follow the below instructions to assemble your Code Foils Aluminium Mast:

*Please Note - Aluminium Mast components are sold separately



Step Four -
Insert the airplane onto the top of the mast and secure with 1 x M6 x 80mm Torx Bolt and 1 x M6 x 30mm Bolt.



PADDLES

A Detailed Breakdown of Codes Paddle Range

THE CODE PADDLE









The Code Paddle from Code Foils is specifically designed for SUP downwind foiling, also performing excellently for SUP wave foiling. Crafted from 100% prepreg carbon, it boasts an ultra-lightweight yet strong build. It features a unique dihedral blade design for enhanced efficiency and direct tracking with reduced wobble. The tapered shaft enhances the paddle's lightweight feel, and the handle is ergonomically designed for a secure grip. The paddle is designed with performance and high cadence in mind, ideal for quick directional changes and durability in rough conditions. The size has been carefully considered for higher cadence paddle ups and lower stress on the shoulders and body

WIDE POINT (mm)	LENGTH TO SHAFT (mm)	AREA (cm2)	SHAFT TYPE	SHAFT LENGTH (mm)	NOTES
168 (6.6in)	470 (18.5in)	548 (75in2)	TAPER	1570 (61.8in)	HANDLE COMES FIXED, RETAILER TO CUT TO SIZE AND GLUE BLADE AND SHAFT

BOLT KITS

A Detailed Breakdown of Codes Bolt Kit Range

THE CODE TITANIUM BOLT KITS

Upgrade your hydrofoil setup with Code Foils' Titanium Bolt Kits. Designed specifically for enthusiasts and professionals alike, these kits elevate your hydrofoil setup with bolts precision-engineered from high-grade titanium. Not just any hardware, these bolts are tailored to enhance every aspect of your hydrofoil's functionality.

Custom Engineered For Optimal Performance

M8 T30 Torx, 28mm Base Plate Screws: These screws are crafted for a perfect, flush fit that minimizes drag, ensuring your base plate integrates seamlessly with your equipment.

Code Foils proudly introduces these M8 bolts with a T30 head, allowing you to streamline your toolkit to just one essential tool.

M6 T30, 30mm Mast and Fuse Screws: Now standardized to match, these screws eliminate mix-ups during setup, providing consistency and reliability.

M6 T30, 16mm Tail Screws: With a precision head designed for minimal protrusion, these screws keep your tail sections streamlined and secure.

T30 Tools: Designed from hardened steel with a zinc nickel coating for longevity and strength

Simplified Assembly: Enjoy the ease of a single tool approach with all screws designed for a T30 Torx, making assembly and maintenance straightforward.

Hydrodynamic Efficiency: Each bolt features a custom head that sits flush to reduce hydrodynamic drag.

Distinctive Branding: The Code Logo embossed on each bolt not only signifies quality but also adds a touch of elegance to your equipment.

Enduring Durability: Crafted from titanium, these bolts offer the perfect balance of lightweight design with exceptional strength, promising longevity and resilience against the harsh marine environment.







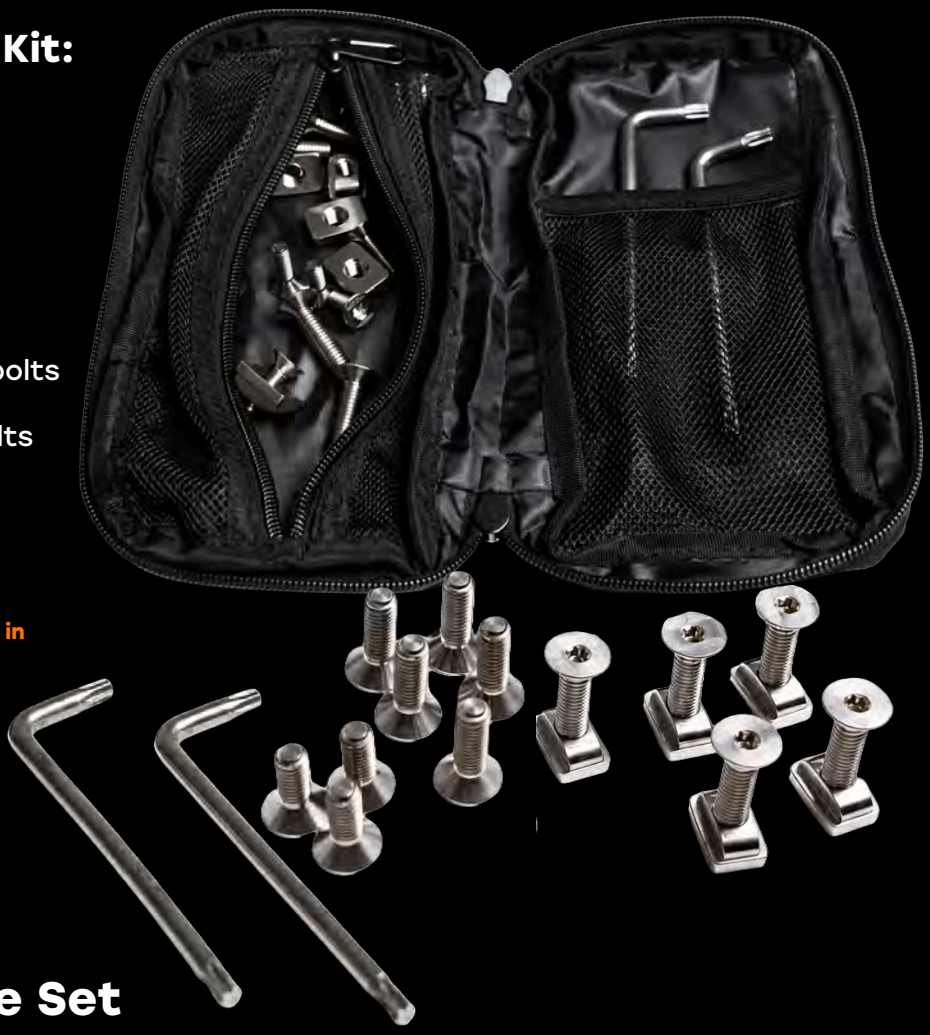
THE CODE TITANIUM BOLT KITS

Whats Included in Each Kit:

Titanium Bolt Set

- Large Soft, zipped carry case
- 5 x Titanium T nuts
- 5 x M8 T30 x 28mm base plate bolts
- 5 x M6 T30 x 30mm fuselage bolts
- 3 x M6 T30 x 16mm tail bolts
- 2 x T30 Tools

***The Kit feature a spare in each segment in case of loss**



Titanium Base Plate Set

- Soft, zipped carry case
- 5 x Titanium T nuts
- 5 x M8 T30 x 28mm base plate bolts
-
- 2 x T30 Tools

***The Kit feature a spare in each segment in case of loss**





***The Base Plate Bolt Kit is Designed to be compatible with any board or brand that requires M8 X 28mm Bolts.**

THE CODE STAINLESS STEEL BOLT KIT

This upgraded hardware set offers premium corrosion-resistant performance perfect for riders who demand reliability in every session.

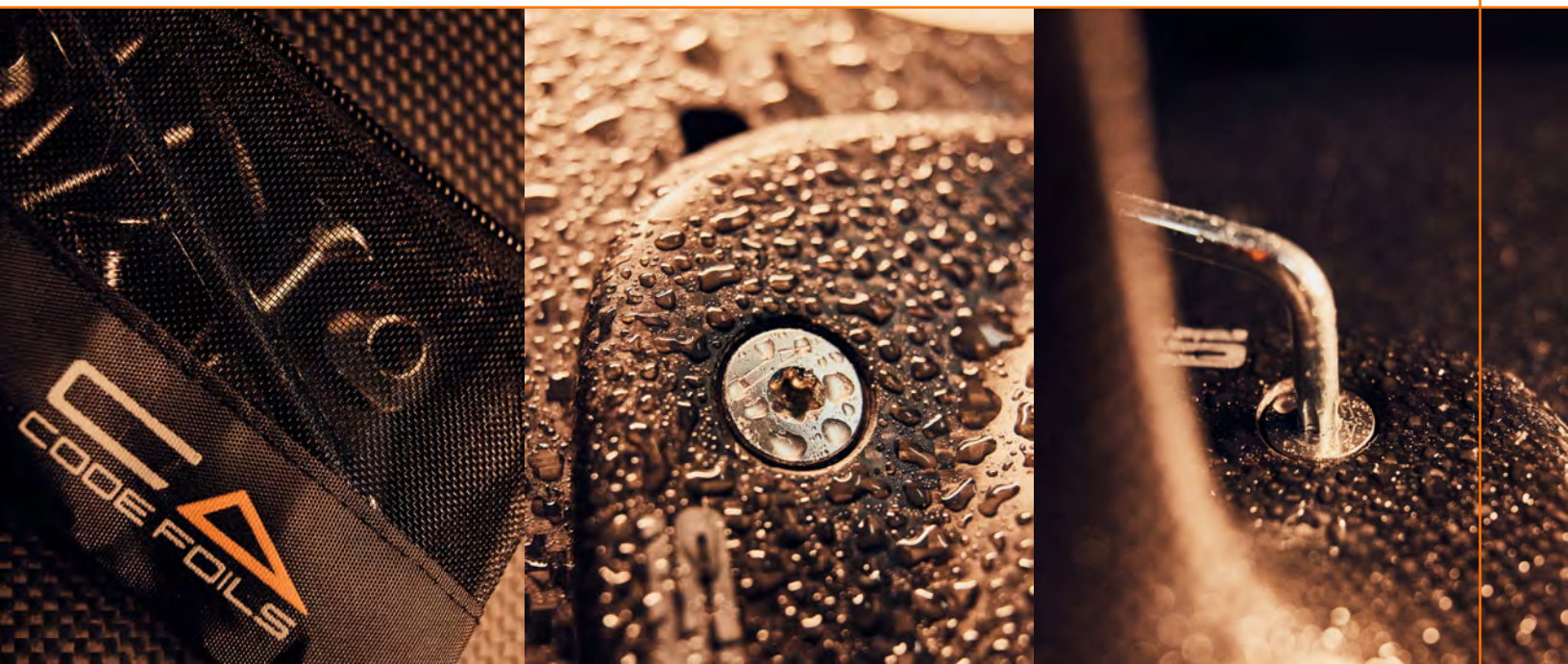
The upgraded Custom Code Foils Stainless Steel Replacement Bolt Set is designed for maximum durability, precision fit, and ease of use across the full Custom Code Foils system.

All bolts feature a T30 head, so you only need to carry one T30 tool from now on. Stainless Steel Replacement Bolt Set Includes:

1 x Custom Code Foils Bolt Kit Case – compact, durable, and organized for easy access
2 × M6 × 16 mm T30 Tail Bolts – for secure tail connection
4 × M6 × 30 mm T30 Bolts – engineered for the front wing–to–fuselage and front wing–to–mast connections
4 × M8 × 32 mm T30 Mast Bolts – robust hardware for a solid mast-to-board connection
4 × M8 Code Foils Tee Nuts – precision-machined for smooth, reliable sliding and tightening
1 × T30 Code Foils Tool (Hardened Stainless Steel) – purpose-built for all included hardware

KEY FEATURES:

Premium marine-grade stainless steel for maximum corrosion resistance
Optimized bolt lengths for perfect fit and clean thread engagement
Custom-machined components designed specifically for the Code Foils system
Complete, ready-to-go kit



APPAREL

A Detailed Breakdown of Codes Clothing

APPAREL



Classic T-Shirts

S - M - L - XL





Hooded Jumpers

S - M - XL





Long Sleeve Sun Tee

S - M - L - XL



APPAREL



3/4 Sleeve Sun Tee

S - M - L - XL



Code Foils Cap



Code Foils Bucket Hat

ASSEMBLY GUIDE

Take care of trailing edges and use care when handling foils and components.

When you're off the water store your foils and components in their cases. Most damage occurs when out of the water.

Damage caused to components from using power tools is not covered under warranty. This includes using drills or impact drivers to tighten and loosen screws

*Bolt descriptions relate to the Code Foils Bolt Kit. Other M6 and M8 metric bolts of the same length can be used. We recommend Torx countersunk bolts.

Ensure 30-35mm bolts are used on the front wing to fuse junction



SCAN THE QR CODE TO SEE THE ASSEMBLY GUIDE VIDEO



WARRANTY

Code Foils offer a 12 month warranty on foils and hardware.

The Code Foils warranty applies to Code Foils hydrofoils and hardware (Products) purchased from authorised retailers for personal use and not for resale.

Under this warranty, Code Foils warrants that the Product will be free from manufacturing defects in material or workmanship for a period of one year from the date of purchase. Proof of purchase is required for a warranty claim to be made.

If a Product is found to be defective by Code Foils, Code Foils will (in its sole discretion) credit, repair or replace the defective Product.

Warranties are non-transferrable and are only applicable to the original purchaser. Used and demo Products do not carry a warranty.Repaired or replaced products are covered for the remainder of the original warranty period.

This warranty does not apply to:

- Damage other than manufacturing defects in material or workmanship.
- Normal wear and tear.
- Damage caused by failure to properly maintain and care for the Product and its components.
- Chips, dings, scratches and cosmetic blemishes.
- Damage caused by transport or inappropriate storage, including any UV damage.
- Damage caused by the use of any cleaning products.
- Damage caused by use of the Product outside its intended purpose.
- Damage caused by use of improper hardware, improper installation or improper tightening of hardware. This includes damage caused by loosening or tightening using power tools.
- Seizing, rust and corrosion of hardware.
- Damage caused by collisions, abuse, misuse or impact with any object.
- Damage from natural causes, such as hurricanes, tornadoes and storms.
- Any Product that has been modified or repaired.
- Any Product that has been used with any third party parts.
- Any Product used for commercial purposes (including rental).

To make a claim under this warranty please take the product to the dealer that you purchased the product from. Code Foils is not responsible for any costs and expenses associated with a warranty claim (including shipping).

ETIQUETTE

Safety & Care
Foiling can be dangerous and physically demanding. The user of this product should understand that participating in any of these activities could cause injury or death to you and /or others.

By purchasing a Code Foils product, you assume all responsibility for its use and any resulting injury or death to you and/or others

- Never foil in a crowded lineup or near other surfers
- This product is only to be used for surf foiling, downwinding and wing and kite surfing.
- When learning, start in small waves until you’re comfortable.
- Always wear a leash or legrope
- Wear a helmet and an impact vest when foiling
- Stay in deep water so you don’t drag your foil on reef and sandbars.
- Take care and don’t foil alone

THE TEAM



BEN TARDREW

Renowned Gold Coast shaper with many years of hydrofoil design experience. Ben has a lifetime on the ocean sailing, surfing and foiling since the sport's infancy. Ben has been making hydrofoils for 6 years.



CAITLIN BAXTER

Female Foiler. With a Profession in Media Marketing. Caitlin works with Josh Ku in Media and Marketing, helping bring the Code Foils Story and Brand to Life



JAMES CASEY

One of the world's most respected and accomplished watermen and foilers. Winner of Molokai 2 Oahu ocean race and numerous Aussie titles.



DANIEL JUENGLING

Industry-leading architect and builder with over 20 years of experience in computer-aided design and manufacturing..



MARCUS TARDREW

Leading SUP and board shaper across multiple disciplines for the last 15 years. Board designer for Sunova. Marcus was the first Australian to complete the Molokai to Oahu race on a foil in 2019.



JOSHUA KU

Josh is a distinguished waterman and is the head of marketing at Code Foils. Josh plays a pivotal role in product development, brand promotion and community engagement.



WWW.CODEFOILS.COM