

Designed with performance, hydrodynamic efficiency and durability in mind. This modular platform can be tuned for every type of foiling: Surf, SUP, downwind, tow, windsurfing, wake, kite and wingfoiling.

It's an extremely versatile foiling platform with all the necessary add-ons to allow you to customize your NSP Airwave across the entire watersports spectrum, no matter the riders weight or ability.

The backbone of the NSP Airwave is the unique 13.5cm (5.31") wide 6061-T6 Aluminum mast. It is substantially wider than other masts for additional strength and directional stability. Connected to our beefed-up, precision CNC-cut 6061-T6 Aluminum fuselage, the Airwave will withstand loads generated from high speed turns and those inevitable wipe-outs.

The 6061-T6 Aluminum twin track mounting plate perfectly balances strength and weight. Control and lift can be adjusted with the interchangeable shims under the rear wings for the right combination of lift, stability and speed.

NSP wings feature a reinforced foam core, laminated with 100% pre-preg 3k Carbon fiber. Although more expensive to build, this construction offers the best durability.

This means NSP Airwave wings will handle regular wear and tear and the inevitable groundings.



FOIL PACKAGE

Anyone in the market for a high-performance foil shouldn't look any further than the NSP Airwave. The Airwave foil package has everything you need and comes in a premium padded travel case with additional space for add-on wings and accessories.



FOIL TRAVEL CASE

- · High-quality 600D Fabric
- · Highly durable zipper
- Custom cut interior foam compartments keep everything safe.
- Name card holder
- Padded handles
- Fits additional add-on front wing, rear wing and mast

*Travel case will hold two front wings, two rear wings and two masts. Both the FW 1325 and FW 1700 package include empty slots for add-ons.



TWO AVAILABLE AIRWAVE PACKAGES:

Choose the Airwave FW 1325 package or the FW 1700 package.

Package	Code
1325	•NFOIL01
1700	•NFOIL19



ASSEMBLY KIT:

Every NSP Airwave set comes with a handy toolbox containing all our mounting hardware: two Torx fasteners, 316 Torx stainless steel screws, foil box sliders, three CNC-cut shims for tuning, and Tef-gel for assembling your Airwave.

FW 1325* (Allround) (1.20kg) •NFOIL05

With a surface of 1325cm and a width of 78cm this is the cornerstone of the NSP Airwave setup. The foil profile offers a wide range with a smooth ride and great speed. Recommended as the perfect setup for surf, wake, light and middle weight SUP foilers.

*Included in the Airwave FW 1325 package and sold individually. Total weight assembled 5.05kg

FW 1700* (Allround) (1.55kg) •NFOIL02

The 1700 has set the performance benchmark for early lift and stable performance. On smaller days, the FW 1700 excels at Surf and SUP foiling and is an amazing option for wake foiling, freeride kite (kitewing) and windsurfing. The similar profile to the FW 1325 offers a wide range, smooth ride and it's easy to pump. Considering the size, the speed potential of this wing is amazing. A perfect choice for smaller surf or heavier foilers wanting more lift.

*Included in the Airwave FW 1700 package and sold individually Total weight assembled 5.4kg.

FW 2000* (Allround) (1.94kg) •NFOIL25

With less curvature for more directional stability and a wider outline, the 2000 wing is the Cadillac of the Airwave range. This wing delivers a smooth ride and just keeps going and going. A great foil for bigger riders, with great bottom end performance for surf, SUP, wake and a perfect choice for winofoiling.



Key design characteristics: Foil profile and AOA (angle of attack) delivers

a gradual lift/speed slope for great control during acceleration

- Low-aspect ratio for early lift Stability through additional width and reduced curvature
- Nice sweep for a deeper speed envelope - Profile and foil outline deliver great pumping performance





Key design characteristics:

Foil profile and AOA (angle of attack) delivers a gradual lift/speed slope for great control during acceleration

- Low-aspect ratio for early lift
- Stability through additional width and reduced curvature
- Nice sweep for a deeper speed envelope - Profile and foil outline deliver great pumping performance



Key design characteristics: - Diminished curvature, for sustained glide

- from one bump to the next Slight winglets help directional stability
 - More slender profile for better control at high speeds
- Foil profile and AOA (angle of attack) offers great lift at lower speeds

FRONT WINGS - PRO (SWEPT) NSP's more advanced foils

URFACE 1325cm

Width 78cm (30.7")

Width 85cm (33.4")

Width 100cm (39.4")



FW 1250* (Swept wing) (1.10kg) •NFOIL20

Built for speed - with thinner profiles, a surface of just 1250cm and a width of 70cm this is the fastest foil in the NSP quiver. Its swept shape helps control at high speed, especially while carving hard turns. Loose and highly sensitive to rider input, it is the wing for advanced foilers. String up a series of drawn out turns, at unimaginable speeds with the FW 1250. Designed for advanced wave riding (surf & sup), kitewings, kite surfing and tow foiling.



Key design characteristics: - Designed to work with our standard 330 flat rear wing

- Thinner profile for greater speeds
- Curvature allowing for fast rail-to-rail transitions
- Serious rake for carved surfing



FW 1400* (Gullwing) (1.25kg) •NFOIL21 FW 1720* (Gullwing) (1.55kg) •NFOIL29 FW 2500* (Gullwing) (1.87kg) •NFOIL28 This is our most popular wing for intermediate to advanced foilers. Perfect for high performance surf, SUP, wing foiling, freeride windsurf and kiteboarding.

It delivers next generation efficiency, speed, early liftoff and control. Windsurf riders say this wing delivers great natural stability that enables confident riding at all angles upwind and downwind. For wing, surf and sup. The speed and carving capabilities are unmatched.



Key design characteristics: - Thinner profile for greater speeds

- Subtle dihedral helps stability - Works in a wide range of conditions

SURFACE 1250cm²

FW 1250* (Glider style) (1kg)	•NFOIL30
FW 1450* (Glider style) (1.08kg)	•NFOIL31
FW 1650* (Glider style) (1.69kg)	•NFOIL24

These high aspect glider style wings are specifically designed for downwind foiling. The outline and foil profiles combine hydrodynamic efficiency, deliver higher speeds and excellent pump characteristics in downwind conditions. These foils are based on high-performance windsurf/ kite race designs and have been adapted for the slower speeds of downwind SUP. Pair with our RW 245 downwind rear wing



Key design characteristics:

Early take-off and sustained flight Reduced profile for high-efficiency Excellent pumping characteristics for downwind racing



• FRONT WINGS - Downwind







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REAR WING



With a width of 135mm (5.31"), these masts are 22.5% wider than most others on the market. The wider cord allows for a more efficient foil profile, more directional stability and a higher rigidity 6061-T6 aircraft grade aluminum. All Airwave masts feature 3 full-length channels for increased stiffness. Airwave masts are anodized for protection and a great look, and sealed with silicone plugs to keep them watertight.

All Airwaves can be interchanged with the following add-on sizes:

Entry level and shallows (1.45kg) Comes standard with any NSP Ainwave package (1.7kg) More advanced surfers/will windsurf too (1.9kg) Windsurf, kitesurf and wing (2.1kg) Kitesurf and windsurfer (2.3kg)
Kitesurf and windsurfer (2.3kg)



Mounting Plate: (0.750kg)

Designed to distribute loads evenly, the CNC cut, anodized aluminum Airwave base features slots for easy mounting and adjustment. The mast sits in a 4cm deep sleeve creating a rigid connection and handling considerable loads.

Tuttle Converter :

For riders who would like to use the NSP Airwave for windsurfing or on SUP and surfboards with a tuttle box, simply swap the base plate for this tuttle converter and enjoy additional board options.

• FUSELAGE



Airwave fuselages are designed without compromise. Our design brief was clear "must be hydro-dynamically efficient, has to be strong, stiff, cannot bend, with solid mast and wing connections and it must hold up to wipe-outs in the shore break". Each precision fuselage is individually CNC cut from aircraft grade 6061-T6 aluminum and is anodized for protection and a great look.

Available in two sizes:

 Fuselage 70cm
 Standard in all Airwave sets (1kg)

 Fuselage 85cm*
 For free ride windsurfing (1.2kg)

* supplied with specific 2 degree shim



TUNING SHIMS

AIRWAVE PRECISION TUNING

Most hydrofoils in the market are set to a single AOA (angle of attack) at the back wing, usually varying between one- and three degrees. The Airwave is different, as it comes with three precision tuning shims, allowing the rider to adjust the AOA of the back wing to customize the balance between lift, speed, stability and turning.

For example, the 3° shim (black) allows for pumping with maximum efficiency, but is slower and at higher speeds, it generates too much lift, requiring continuous counteracting by applying front foot pressure. Switching to the 1° shim (silver) gives less lift, is harder to pump but offers maximum speed. The 2° shim (orange) is the most neutral of the three, it's the base line we design all our foils to and is the best place to start as in regular surfing, each shim has its own feel and performance characteristics. Since a hydrofoil moves on three axis, instead of the two we recommend you experiment as your skills develop.



The 85 Fuselage is for windsurfers and kitesurfing and is supplied with a 2 degree 3D printed shim. The fuselage can be used with the standard shims supplied with the Airwave set, but they are a little narrow, as the Fuselage 85 tip (tail) is wider.

AIRWAVE FOIL ACCESSORIES



M8 x 30 bolts - 4 pcs •NFOIL14

Four high-grade stainless steel bolts with M8 countersunk Torx® screws will take the required torque to secure your foil to the board without stripping. Corrosion resistant nuts, sourced for marine applications, allow tuning of your setup as you slide them up or down the twin rack mount.



Mast Screws M6 x 45 •NFOIL13

M6 long countersunk Torx® screws mount your Airwave mast to the fuselage and mounting plate.



Screws M8 x 30 - 3 pcs •NFOIL11

Mount your Front wing to the fuselage with three high-grade stainless steel bolts,



RW Screw Kit - M6 x 18 - 2 pcs •NFOIL12

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Tuttle Converter •NFOIL23

Have a slalom surfboard laying around or a foilboard with a tuttle box? Now you can rig up your Airwave with a tuttle system too.



Mounting Plate •NFOIL10

Designed to spread the load, the anodized aluminum base features screw slots instead of holes, allowing for additional fine tuning.



Torx® Allen Key T30/T40 Kit - 2 pcs •NFOIL27





The centerpiece of the foil. These anodized aluminum, hydro-dynamically, CNC cut fuselages measures 70 cm (27.5") in standard form. Deep slots seamlessly attaches to the masts and hold the front wing, the back wing and the tuning shims. The 85 Fuselage is for windsurfers and kitesurfing and is supplied with specific 2 degree shim for windsurfing



RW Tuning Shims •NFOIL15

Three rear wing anodized aluminum shims allow you to trim your foil for different water conditions. Available in 1, 2, and 3 degrees.

*fitting 330 / 340 Rear Wings



Mast **60, 70, 80, 90, 100**

Anodized aluminum mast with reinforced internals for unparalleled rigidity.

Available in 5 sizes – 60 cm (23.6"), 70 cm (27.5") and 80 cm (31.4"), 90 cm (35.4") and 100 cm (39.3")

AIRWAVE OVERVIEW

winged, windsurfed, kited, or downwinded. The Airwave offers a perfect tune for every type of watersport you enjoy on a foil.



COMPONENTS

COMPONENTS	Possible		Suffe	up prost	H ^{SUP} Down	wind windf	Jiing Wite	oiling winds	ut wate	oiling Riderlevel
FRONT WINGS		CODE	<u>C</u>	<u>C</u>	***		Ş	<u>k</u>	¥.	
FW 1325	1325cm² / 78cm	•NFOIL05	x						x	Allround
FW 1700	1700cm² / 85cm	•NFOIL02	x			х			x	Allround
FW 2000	2000cm ² /100cm	•NFOIL25	x			x			x	Allround
FW 1250	1250cm ² /70cm	•NFOIL20		x		x	x		x	Advanced
FW 1400 FW 1720 FW 2500	1400cm ² / 77cm 1720cm ² / 94cm 2500cm ² / 120cm	•NFOIL21 •NFOIL29 •NFOIL28		x		x	x	x	x	Advanced
FW 1250 FW 1450 FW 1650	1250cm² / 92cm 1450cm² / 100cm 1650cm² / 110cm	•NFOIL30 •NFOIL31 •NFOIL24			x	x				Advanced
REAR WINGS										
RW 330 Flat Wing	330cm²/ 39.5cm	•NFOIL07	x	x		x	x			Allround
RW 340 M Wing	340cm² / 42cm	•NFOIL08	x	x		x	x	x	х	Advanced
RW 245 Downwind	245cm² / 42cm	•NFOIL22			x			x		Advanced
RW 240 Radical Su	irf ^{240cm² / 39cm}	•NFOIL33		x						Advanced
RW 228 Windsurf	228cm ² / 38cm	•NFOIL32						x		Advanced
MASTS										
Mast 60		•NFOIL03	x	x		x				Beginner
Mast 70		•NFOIL04	x	x	x	x				Allround
Mast 80		•NFOIL06	x	x	x	x		x	x	Advanced, Allround
Mast 90		•NFOIL017		x	x	x	x	x	x	Advanced
Mast 100		•NFOIL018					х	x	х	Advanced
FUSELAGE										
Fuselage 70		•NFOIL70	x	x	x	x	х		x	
Fuselage 85		•NFOIL26						x		