

Designed as the most versatile and performance-oriented foil platform on the market. The NSP Airwave can be surfed, SUPed, towed, waked, winged, windsurfed, kited, or downwinded. The Airwave offers a perfect tune for every type of watersport you enjoy on a foil.



AIRWAVE

MODULAR HYDROFOIL SYSTEM

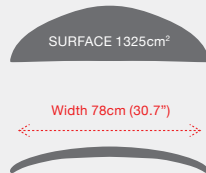
COMPONENTS

■ Ideal ■ Possible

FRONT WINGS		CODE	Surf / Sup	Pro surf/sup	Downwind	Wingfoiling	Kitefoiling	Windsurf	Wakefoiling	Rider level
FW 1325	1325cm ² / 78cm	•NFOIL05	X						X	Allround
FW 1700	1700cm ² / 85cm	•NFOIL02	X			X			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	1400cm ² / 77cm	•NFOIL21		X		X	X	X	X	Advanced
FW 1720	1720cm ² / 94cm	•NFOIL29		X		X	X	X	X	Advanced
FW 2500	2500cm ² / 120cm	•NFOIL28		X		X	X	X	X	Advanced
FW 1250	1250cm ² / 70cm	•NFOIL30			X	X				Advanced
FW 1450	1450cm ² / 90cm	•NFOIL31			X	X				Advanced
FW 1650	1650cm ² / 110cm	•NFOIL24								Advanced
REAR WINGS		CODE	Surf / Sup	Pro surf/sup	Downwind	Wingfoiling	Kitefoiling	Windsurf	Wakefoiling	Rider level
RW 330 Flat Wing	330cm ² / 39.5cm	•NFOIL07	X	X		X	X			Allround
RW 340 M Wing	340cm ² / 42cm	•NFOIL08	X	X		X	X	X	X	Advanced
RW 245 Downwind	245cm ² / 42cm	•NFOIL22			X			X		Advanced
RW 240 Radical Surf	240cm ² / 39cm	•NFOIL33		X						Advanced
RW 228 Windsurf	228cm ² / 38cm	•NFOIL32						X		Advanced
MASTS		CODE	Surf / Sup	Pro surf/sup	Downwind	Wingfoiling	Kitefoiling	Windsurf	Wakefoiling	Rider level
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					X	X	X	Advanced
FUSELAGE		CODE	Surf / Sup	Pro surf/sup	Downwind	Wingfoiling	Kitefoiling	Windsurf	Wakefoiling	Rider level
Fuselage 70		•NFOIL70	X	X	X	X			X	
Fuselage 85		•NFOIL26					X			

• FRONT WINGS – Allround

NSP's benchmark foils - a perfect combination between lift, speed and stability



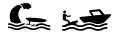
FW 1325* (Allround) (1.20kg) •NFOIL05

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

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



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.

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



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 wingfoiling.

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



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

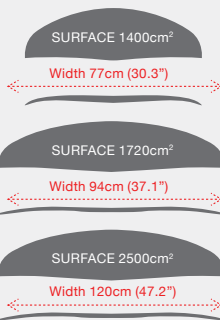
Built for speed - with thinner profiles, a surface of just 1250cm and a width of 70cm this is the fastest foil in the NSP quiver. Its swept shape helps control at high speed, especially while carving hard turns. Loose and highly sensitive to rider input, it is the wing for advanced foilers. String up 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



• FRONT WINGS - PRO (GULLWING)



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 lift-off 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.

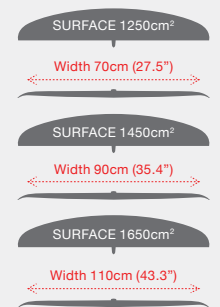
Key design characteristics:

- Thinner profile for greater speeds
- Subtle dihedral helps stability
- Works in a wide range of conditions



• FRONT WINGS - Downwind

NSP's dedicated downwinder foils



FW 1250* (Glider style) (UD) •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



• REAR WING



RW 330 FLAT WING (0.20kg) •NFOIL07



The allrounder - flat with mild winglets, a fast and loose rear wing that works well with all NSP Front wings. This is our go to back wing. With plenty of positive rider feedback, it makes pumping a breeze.

*Comes standard with the Airwave FW 1325 foil package and the Airwave FW 1700 foil package.



RW 340 M WING (0.20kg) •NFOIL08



This is our most stable rear wing, designed for directional stability, this wing compliments our FW 1250 and FW 1400 wings. Handling fast direction changes with ease and totally at home at higher speeds, this is the best option for freeride windsurfing, wingfoiling, kitefoiling, advanced surf and sup foilers.



RW 245 DOWNWIND (0.16kg) •NFOIL22



High-aspect shape for efficiency, sustained flights and performance downwind. For windsurfing, use this rear wing in combination with the Fuselage 85.

*supplied with specific 2 degree shim for 70 cm Fuselage



RW 240 RADICAL SURF (0.23kg) •NFOIL33



This pre-preg carbon rear-wing is held in place with two screws. With a reduced surface, your setup all come alive, enabling you to maneuver faster than before. Increased responsiveness through roll and pitch as you carve and pump your way through the swell.

* supplied with specific 2degree shims



RW 228 WINDSURF (0.23kg) •NFOIL32



This pre-preg carbon rear-wing is held in place with two screws. Intended for windsurfing and kitesurfing specifically, the RW 228 is designed for sustained flight and an emphasis on directional stability. This is achieved by using articulated winglets and a more neutral profile.

*supplied with specific 2 degree shim for 85 cm Windsurf Fuselage

• MASTS

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:

- Mast 60cm** Entry level and shallows (1.45kg)
- Mast 70cm** Comes standard with any NSP Airwave package (1.7kg)
- Mast 80cm** More advanced surfers/will windsurf too (1.9kg)
- Mast 90cm** Windsurf, kitesurf and wing (2.1kg)
- Mast 100cm** Kitesurf and windsurfer (2.3kg)



•NFOIL10

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.



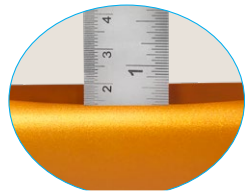
•NFOIL23

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

The regressed mounting point for the mast creates additional rigidity, strength and durability.



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) •NFOIL09
- Fuselage 85cm*** For free ride windsurfing (1.2kg) •NFOIL26

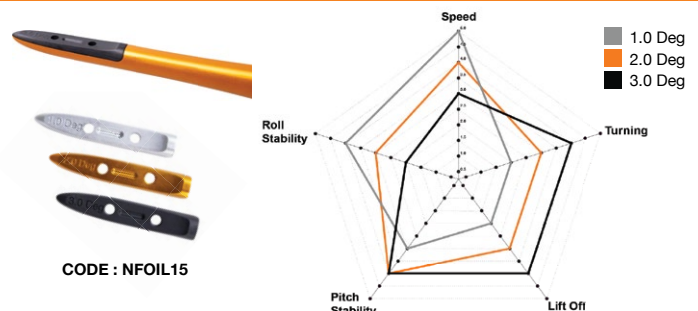
* supplied with specific 2 degree shim

• 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.