

AIRWAVE

MODULAR HYDROFOIL SYSTEM

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

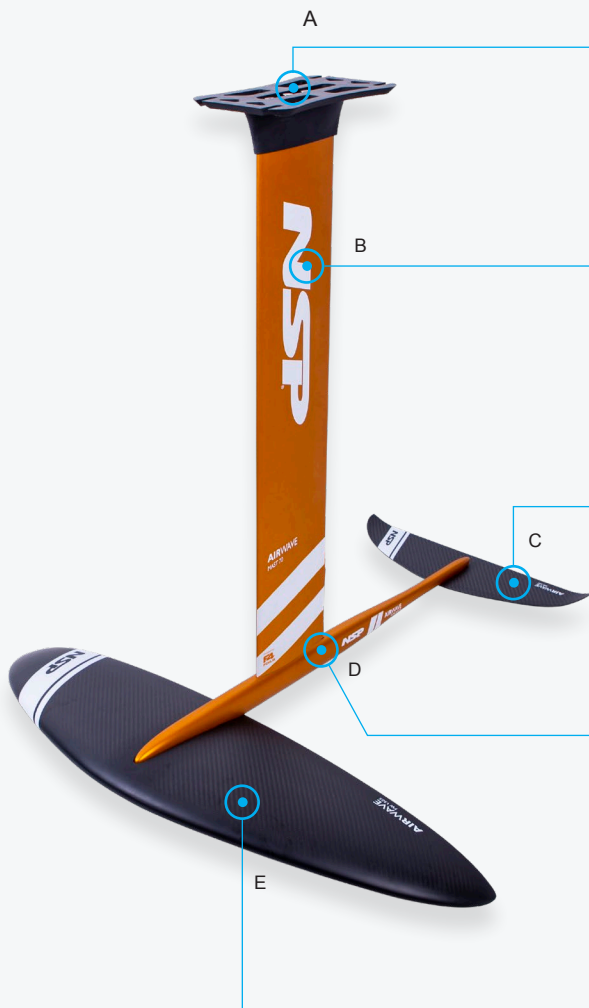
additional strength and directional stability. Connected to our beefed-up, precision CNC-cut 6061-T6 Aluminum fuselage, the Airwave will withstand loads generated from high speed turns and those inevitable wipe-outs.

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.



- Twin track base (0.75kg)
- 316 stainless Torx screws
- Deep mast sleeves, CNC-milled for best strength-to-weight ratio
- Bomb-proof, 6061-T6 Aircraft grade anodized aluminum base
- Optional tuttle box adapter available

- 13.5cm (5.31") wide for strength and directional stability
- Extruded 6061-T6 anodized aircraft aluminum
- mast 60, entry-level or shallows (1.45kg)
- mast 70, Ideal first mast, perfect allrounder (1.7kg)
- mast 80, Advanced height for surfers, downwind, wing and windsurf (1.9kg)
- mast 90, Kite, wing or windsurf and downwind (2.1kg)
- mast 100, Kite, wing, windsurf and tow-in foilers (2.3kg)

- High-end 3k pre-preg carbon rear wings:
- RW 330 Flat wing (200gr)
- RW 340 M wing (200gr)
- RW 335 Downwind

- Super strong, CAD designed precision CNC-cut 6061-T6 anodized aluminum
- Fuselage 70 Standard (1.05kg)
- Fuselage 85 Windsurfing (1.27kg)

- High-end 3K pre-preg carbon front wings:
- FW 1325 Standard (1.2kg)
- FW 1700 Standard (1.55kg)
- FW 2000 Standard
- FW 1250 Advanced (Swept wing)
- FW 1400 Advanced (Gullwing)
- FW 1250 Downwind (Glider style)
- FW 1450 Downwind (Glider style)
- FW 1650 Downwind (Glider style)

• FRONT WINGS – Allround

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



FW 1325* (Allround)

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



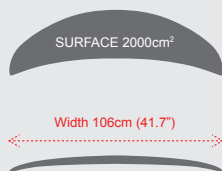
FW 1700* (Allround)

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 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)

With 15% more surface area over the FW 1700, less curvature for more directional stability and a wider outline, this wing is the Cadillac of the Airwave range, it flies super early, is smooth and just keeps going. A great foil for bigger riders 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 offer great lift at lower speeds



• FRONT WINGS - PRO

NSP's more advanced foils

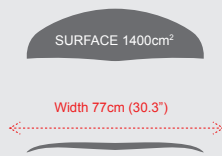


FW 1250* (Swept wing)

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)

Featuring a similar profile as the NSP FW 1250, this foil has less sweep (rake), more width and a gullwing profile (dihedral) for additional roll stability. The FW 1400 is the more forgiving wing compared to the FW 1250, with more lift and easier pumping it carves loose turns and is really responsive. Designed for heavier surf & sup foilers, the FW 1400 is a perfect choice for wingfoiling, kiting, freeride windsurfing, and wake foiling.

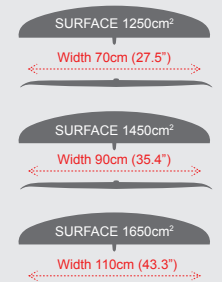
Key design characteristics:

- 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)

FW 1450* (Glider style)

FW 1650* (Glider style)

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 leading windsurf/kite race designs and have been adapted for the slower speeds of downwind SUP. Pair with our RW 335 downwind foil.

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 (200g)



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 (200g)



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 335 HIGH-ASPECT



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

• 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, the 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)



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.

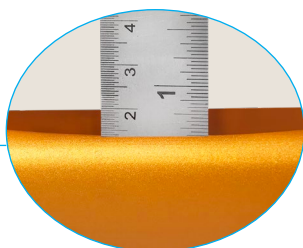


Tuttle Converter :

For riders who would like to use the NSP Airwave on boards 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 are anodized for protection and a great look.

Available in two sizes:

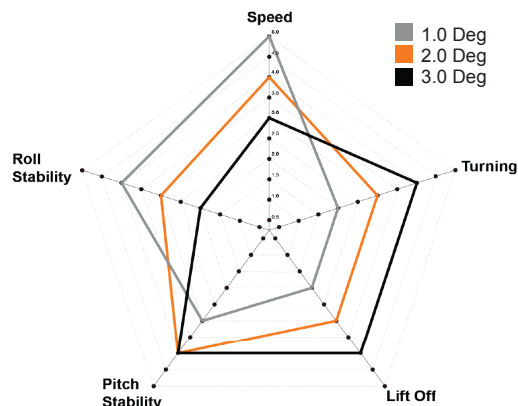
- Fuselage 70** Standard in our complete packages
- Fuselage 85** For freeride windsurfing (1.2kg)

• 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.



• 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
- Name card holder
- Padded handles
- Custom cut interior foam compartments keep everything safe.
- 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.



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.



TWO AVAILABLE AIRWAVE PACKAGES:

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

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

	Surf / Sup	Pro surf/sup	Downwind	Wingfoiling	Kitefoiling	Windsurf	Wakefoiling	Rider level
FRONT WINGS								
FW 1325 cm ² / 78cm	X						X	Allround
FW 1700 cm ² / 85cm	X						X	Allround
FW 2000 cm ² / 106cm	X			X			X	Allround
FW 1250 cm ² / 70cm		X		X	X		X	Advanced
FW 1400 cm ² / 77cm		X		X	X	X	X	Advanced
FW 1250 cm ² / 70cm FW 1450 cm ² / 90cm FW 1650 cm ² / 110cm			X					Advanced
REAR WINGS								
RW Flat Wing 330cm ² - 39.5cm	X	X		X	X			Allround
RW M Wing 340cm ² - 42cm	X	X		X	X	X	X	Advanced
RW Downwind 335cm ² - 48cm			X			X		Advanced
MASTS								
Mast 60	X	X		X				Beginner
Mast 70	X	X	X	X				Allround
Mast 80	X	X	X	X		X	X	Advanced, Allround
Mast 90		X	X	X	X	X	X	Advanced
Mast 100					X	X	X	Advanced
FUSELAGE								
Fuselage 70	X	X	X	X	X		X	
Fuselage 85						X		