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// HYDROFOIL TECHNOLOGY

The shape of the hydrofoil is the heart and soul of the riding experience. Even the smallest variations in wing design and size, profile sections, laminate construction or surface finish can have the most dramatic effect on its performance. At Levitaz, we believe that the secret to creating the best hydrofoils is to precisely design and craft these key elements. With over 25 years of experience in manufacturing composite materials and many years of experience with hydrofoils, we have learned how to get it exactly right.

FIVE REASONS TO FLY LEVITAZ HYDROFOILS

REASON // ONE

PERFORMANCE

// Profile sections and surface transitions are optimized using CFD simulations and have been tested under many different conditions to obtain the lowest possible drag.

// The use of best construction materials available on the market. Our ultra-high-modulus fibers offer at least three times the stiffness of standard fibers.

#Levitaz brings the quality requirements and mindset of the race world series directly to its serial production process.

INTERFACE

All Levitaz masts are equipped with a 4-screw plate mount that provides optimal power transmission and maximum adjustability.

FUSELAGE

The smallest possible surface area leads to minimum drag and maximum stiffness. We rely on our special high alloy steel to achieve these benefits. The assembly with steel is solid and highly reliable.

FRONT WING

Our unique connection system enables users to change the front wing in seconds. For every level and every condition, Levitaz offers the perfectly matched carbon wing.

MAST

The mast is divided into various profile sections: the lowest drag profile is found in the lower part and a high ventilation-resistant profile, where it is needed. Ultra-high-modulus carbon provides the requisite stiffness.

REAR WING

The Levitaz connection system enables users to change therear wing within seconds. Three different wings for various conditions are available and can be adjusted to personal preferences with our angle shim set.

LOW CENTER OF GRAVITY

The steel fuselage leads to a very low center of gravity which gives a very stable ride.

REASON // TWO

DESIGN

#Force flux optimized fairings result in a perfect hydrodynamic shape.

// The precise manufacturing technique demonstrates the best possible form closure.

#Levitaz hydrofoils are designed using meticulously finished materials.

REASON // THREE

EVOLUTION

// Levitaz hydrofoils grow with your skills and are adaptable to every condition. No matter which conditions you are facing, be prepared and enjoy your perfect day on the water.

// The great benefits of our hydrofoils are that all parts are compatible with each other.

// The unique connection system is simple, strong and stiff, and allows for a quick change of parts.

REASON // FOUR

QUALITY & DURABILITY

// Our materials are characterized by the perfect combination of durability and consistent high quality.

// The use of non-corrosive materials such as high-value carbon and seawater-resistant stainless steel ensures longevity and offers unparalleled possibilities.

// With classification certifications, our production processes have set a new benchmark in the watersports industry for high-quality products.

Unique connection system: Fast & easy assembly Two screws to change the wing

REASON // FIVE

EXPERIENCE

Levitaz is the combination of...

// More than 25 years of manufacturing experience with advanced composite materials

// Production processes and an integrated quality management system based on classification standards

// Many years of design experience with hydrofoils in the world series and freeride sector

#100 % own hydrofoil development and production

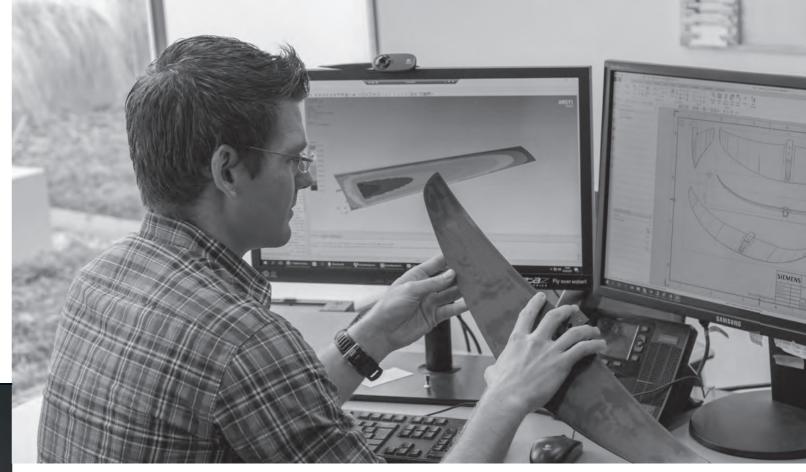
// Made in Austria

The company behind the Levitaz brand ...

Geislinger GmbH equips the fastest ferries, the largest container ships, the biggest mining trucks and the largest wind turbines. Innovation and exceeding the limits by producing products of the highest quality drives the mechanical engineering company. The elements of water and wind are one field of application of products made by Geislinger. Not only the fastest gas-powered high-speed ferry relies on a shaft from Geislinger, but also the largest wind turbines in the world are equipped with couplings made by Geislinger.

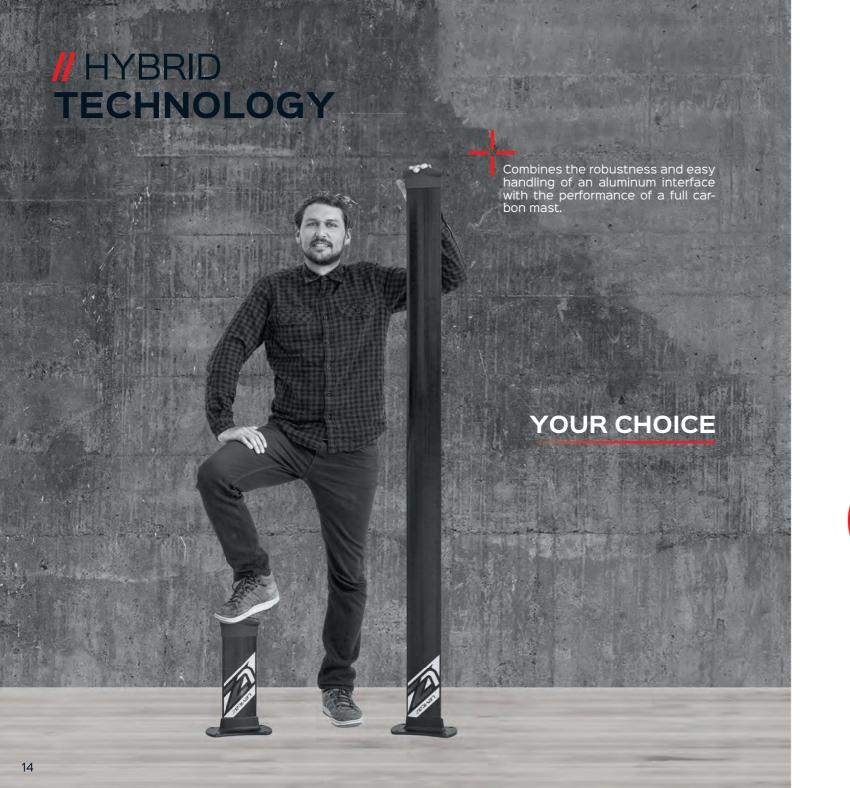
With more than 25 years' experience in developing fiber composite couplings and shafts, and with extensive experience in carbon fiber technology, Geislinger GmbH turned out to be the perfect partner for developing Levitaz Hydrofoils.

While the Levitaz development and innovation team is located at the headquarters in Salzburg, Levitaz Hydrofoils are produced exclusively at the state-of-the-art Geislinger production facility for carbon fiber composite products, located in Bad St. Leonhard, Austria. Geislinger is proud to guarantee that Levitaz hydrofoils are produced 100% at its own production site in Austria. The intense collaboration and exchange between the Levitaz R&D department, the production team, and the team riders gives Levitaz a unique competitive advantage.













The interfaces are made of high-strength anodized aluminum. The thin-wall design reduces weight and provides maximum durability. The top plate has open fixing points which allow you to loosen the track nut bolts to slide the top plate out rather than completely remove them. This makes removing the mast for a fast and effortless transport easy.

To handle a flux of forces, it is designed with a plate connection. Riders can enjoy the mast without worrying about connections loosening or water getting into the product.







CARBON FIBER

The low-drag carbon fiber design offers the best performance. The integrated fibers have been especially adapted to the direction of loading.

Varying angle-oriented carbon weaves ensure maximum stiffness in bending and torsion to provide riders with strong support and a feeling of tight control.



LZ INTERFACE

The lower section is equipped with the proven and reliable Levitaz connection system, which is simple, strong and stiff, and allows for a quick change of parts.

As a result, the mast works with all existing Levitaz parts, and makes a great way to expand your possibilities.



PRE-CONFIGURED HYDROFOILS

The innovative design enables a combination of various front and rear wings, as well as different fuselage and mast lengths. Therefore, the hydrofoil can be adapted to every condition, rider level or location.

We offer riders various pre-configured hydrofoil setups, which are perfectly matched to the requirements of the application and user.

The recommended application range is shown in each hydrofoils' register:



Accessibility = = = = = Maneuverability = = = = = Upwind = = - - -

Lift speed

describes the speed when the foil starts to fly. The higher the riding speed, the more lift a hydrofoil creates.

Accessibility

describes the necessary foiling ability or rather how challenging the hydrofoil is to fly. A higher rating indicates the model is easier to access.

Maneuverability

shows how agile the hydrofoil responds. The higher the rating, the better the turning ability.

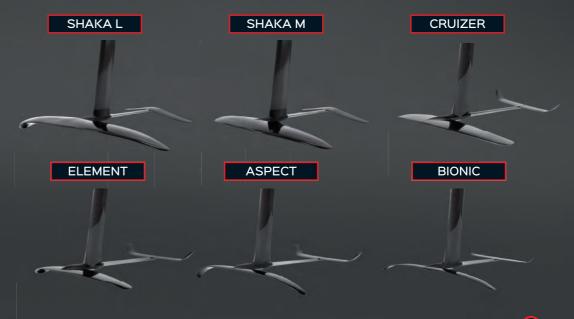
Top speed

is influenced by the foil's shape and its angle of attack. A high score stands for higher speeds.

Upwind

is a decisive factor for kitefoiling. Foiling allows riders to travel at unbelievable angles to the wind. There are differences in the upwind performance due to volume, hydrodynamic shape and the resulting drag. A high rating indicates the foil's upwind ability.

CHOOSE YOUR FAVORITE HYDROFOIL MODEL



CUSTOMIZE YOUR FOIL & CHOOSE YOUR FAVORITE 1) MAST



*The lift speed indication refers to a rider with an average weight of 75-80 kg.







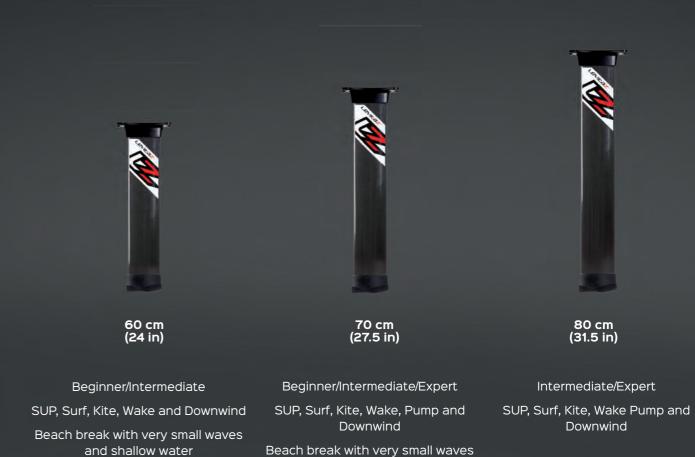
// HYDROFOILS SHAKA

COMPARISON

Range of application	Under 60 kg	Rider Weight 60 - 80 kg	Over 80 kg
Surf - Small waves	Shaka M	Shaka M + L	Shaka L
Surf - Big waves	Shaka M	Shaka M	Shaka M
SUP - Small waves	Shaka M + L	Shaka M + L	Shaka L
SUP - Big waves	Shaka M	Shaka M	Shaka M + L
Downwind Surf	Shaka M	Shaka L	Shaka L
Downwind SUP	Shaka M + L	Shaka L	Shaka L
Kite	Shaka M	Shaka M	Shaka M + L
Wake	Shaka M	Shaka M + L	Shaka M + L
Pump	Shaka M + L	Shaka M + L	Shaka M + L

MAST LENGTH GUIDE

The right mast length depends on your ability and intended use – the more experienced you are, the longer your chosen mast can be. For the Shaka hydrofoils we recommend the following masts:

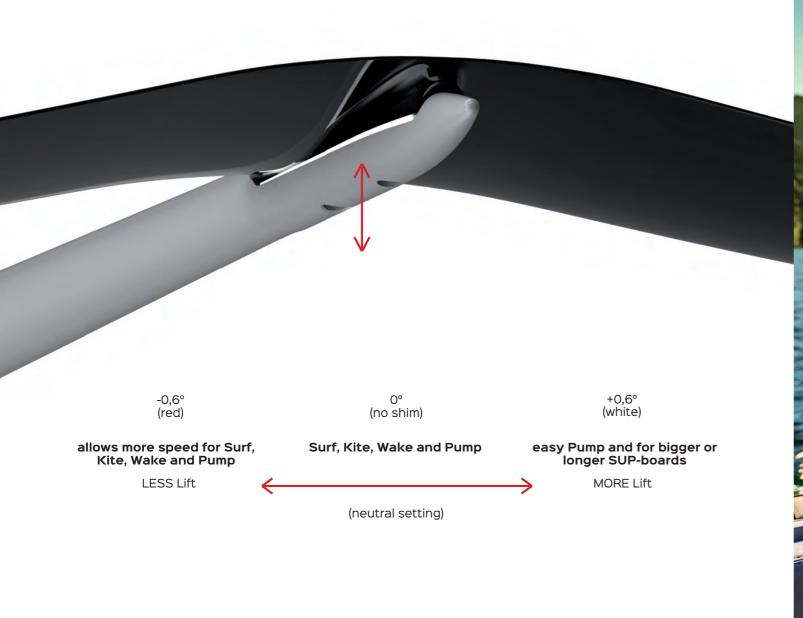


and shallow water

4

TRIM GUIDE

The Shaka Hydrofoil series enables three different rear wing settings. A Levitaz Shaka angle shim set will accompany your foil for your personal adjustments. We do recommend the following trim:









ELEMENT

The Levitaz Element is the sporty freeride foil. High maneuverability is one of its key features. Even the smallest turns can be maneuvered without any loss of speed. Due to the low drag of the foil, the Levitaz Element provides astonishing upwind capabilities. The agile tuning between accessibility, stability and maneuverability makes this versatile model a great freestyle and freeride kitefoil.



KITE SUP SURF **PUMP** WAKE

// Speed-oriented for optimal control at high speeds

Excellent upwind performance

ASPECT

The Levitaz Aspect is the freeracer in the Levitaz kitefoil collection. For everyone who wants to get into racing or loves long distance sessions, the Aspect offers the performance to match. The high aspect ratio front wing lowers the water resistance to reach top speeds with great control. With these unique features, the Aspect also provides amazing jumping capabilities. Advanced foilers will love the sporty performance of our freerace foil.

Lift speed 10.8 knots
Accessibility

Maneuverability

Top speed

Upwind



THE RUSH OF ADRENALINE.



- // Perfect balance between upwind and downwind performance
- // Combines agility and control in any condition

BIONIC

The Levitaz Bionic is the ultimate racing machine. As proven in the world series, the Bionic is one of the most used foils by the world's top riders. With its radical design, the Levitaz Bionic provides the lowest drag and consequently the most efficient upwind performance and highest speeds, expanding your range of possibilities to new spheres.





KITE

WAKE

PUMP

HYDROFOILS

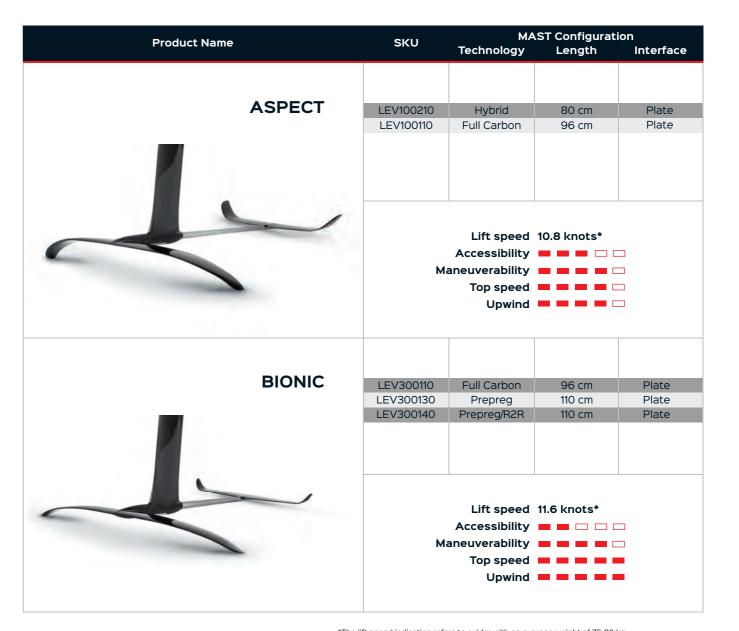




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HYDROFOILS

Due do et M		CIVII	Ma	st Configurati	on
Product N	ame	SKU	Technology	Length	Interface
	CDIUZED				
	CRUIZER	LEV400200	Hybrid	60 cm	Plate
		LEV400220	Hybrid	70 cm	Plate
		LEV400210	Hybrid	80 cm	Plate
		LEV400110	Full Carbon	96 cm	Plate
	A				
-			Lift speed	9.2 knots*	
			Accessibility		
		М	aneuverability		
			Top speed		
			·		
	ELEMENT	LEV200210	Hybrid	80 cm	Plate
		LEV200110	Full Carbon	96 cm	Plate
		EE VEGOTIO	i dii carbon	30 6111	1 lace
	_				
			1.00	40=1 4 *	
			=	10.5 knots*	
		M	aneuverability		
			Top speed		



*The lift speed indication refers to a rider with an average weight of 75-80 kg.



FRONT WINGS

FRONT WINGS

WINGS

Product Name	SKU	Range of Application	Characteristics	Wing Area	Span	Root Chord	Aspect Ratio
SHAKA L	G443585	SUP Surf Kite Wake Pump	Lift speed: 5.1 kt* Lowest take-off speed Ultimate lift Greatest stability	2000 cm²	95 cm	32 cm	4.5
SHAKA M	G442071	SUP Surf Kite Wake Pump	Lift speed: 5.7 kt* Made for higher speeds High maneuverability More active riding	1500 cm²	73 cm	28 cm	3.5
CRUIZER	G435792	Kite	Lift speed: 9.2 kt* Low take-off speed Wide lift surface Highest stability	1000 cm²	63 cm	19 cm	4.2
ELEMENT	G429376	Kite	Lift speed: 10.5 kt* High maneuverability	700 cm²	50 cm	16 cm	3.9
ASPECT	G429188	Kite	Lift speed: 10.8 kt* Speed oriented Excellent upwind performance	600 cm²	60 cm	12 cm	7

Product Name	SKU	Range of Application	Characteristics	Wing Area	Span	Root Chord	Aspect Ratio
BIONIC	G437588 [G435986]	Course Race balanced [also available with R2R Finish]	Lift speed: 11.6 kt* Kite Race	500 cm²	64 cm	11 cm	8.5

REAR WINGS

WINGS

Product Name	SKU	Recommended Combinations	Characteristics	Wing Area	Span	Root Chord	Aspect Ratio
SHAKA	G442012	Shaka L Shaka M	versatile usage for all SHAKA foils	300 cm²	44 cm	8 cm	6.5
FREERIDE 2	G444134	Cruizer Element Aspect Freeride Fuselage	Great stability Versatile usage for all Freeride kitefoils	240 cm²	38 cm	7 cm	7
BIONIC	G438213 [G440537]	Aspect Bionic Bionic Fuselage	Course Race balanced [also available with R2R Finish]	190 cm²	38 cm	6.5 cm	8.5

*The lift speed indication refers to a rider with an average weight of 75-80 kg.

HYBRID FULL CARBON

RACE

MASTS

Product Name	SKU	Range of Application	Length	Technology	Interface
HYBRID 60	G438269	SUP Surf Kite Wake Pump	60 cm	Anodized aluminum RTM carbon fiber	fast change 4 screw plate 165 x 90 mm
HYBRID 70	G443995	SUP Surf Kite Wake Pump	70 cm	Anodized aluminum RTM carbon fiber	fast change 4 screw plate 165 x 90 mm
HYBRID 80	G438270	SUP Surf Kite Wake Pump	80 cm	Anodized aluminum RTM carbon fiber	fast change 4 screw plate 165 x 90 mm
HYBRID CUSTOM	G438271	SUP Surf Kite Wake Pump	30-120 cm	Anodized aluminum RTM carbon fiber	fast change 4 screw plate 165 x 90 mm
FULL CARBON 96 PLATE	G436225	Kite	96 cm	Full Carbon	4 screw plate 165 x 90 mm
FULL CARBON 110 PLATE	G436135	Kite	110 cm	Full Carbon	4 screw plate 165 x 90 mm

Product Name	SKU	Range of Application	Length	Technology	Interface
RACE PREPREG 110 PLATE	G437359	Kite	110 cm	Full Carbon Prepreg	4 screw plate 165 x 90 mm

FUSELAGES

Product Name	SKU	Recommended Front wing	Recommended Rear wing		
SHAKA	G437305	Shaka M Shaka L	Shaka	60 cm	Versatile usage for all SHAKA foils
FREERIDE	G429184	Cruizer Element Aspect	Freeride 2	65 cm	Great pitch stability Versatile usage for all Freeride kitefoils
BIONIC	G437306	Cruizer Bionic Bionic R2R	Bionic	55 cm	Lowest drag Highest maneuverability



// BOARD TECHNOLOGY

Levitaz boards were completely redesigned as part of a quality initiative. Only the best materials were used: cores of XPS, which never absorbs water, as well as robust carbon reinforcements in critical areas, make LZ foil boards a trusted companion. The foil mount is connected using the reliable track system and two US-boxes, which combined with the five-position foot strap inserts offer nearly endless adjustment options. Levitaz offers perfect foilboards at highest quality levels.

CORE //

XPS-EXTRUDED CLOSED CELL CORE

The heart of the board is the XPS core, which comprises a homogeneous, closed cellular structure. The advantages of this high value core material are obvious: the **highest pressure stability** and **moisture resistance** make the boards super strong and safe.

LIGHTWEIGHT CONSTRUCTION //

CARBON / GLASS / HD REINFORCEMENTS

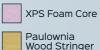
All boards are built using **high value composite materials** to create a foil board that is both **solid and light-weight. Strong reinforcements** in particularly demanding spaces such as the standing and foil mount area are integrated. Depending on the load these consist of carbon, glass fiber and high density foams.

Stringers made of carbon and Paulownia wood provide more flexibility and less torsion at the same time.















Lightweight Sandwich









Waterproof HD-Core

nt High Tensile n Reinforcements (HTR)

Triple Skin Construction

Original Imponents

50



GRIP //

EVA-PADS & ANTI-SLIP SURFACE

Specially designed anti-slip surfaces provide a durable, easy-to-grip surface.

Our freeride boards come with EVA traction pads with soft diamond grip. To support strapless riders, we have added a kick tail that is perfectly matched to the foil setups.

FOIL MOUNT //

TRACK SYSTEM & INSERTS

All of our boards are compatible with the 4-bolt plate mount interface, which provides **optimum power transmission**. Multiple attachment points facilitate tuning using the sliding track system or two-position inserts. You can easily adjust your foil over a length of 260 mm to find your perfect personal setup.



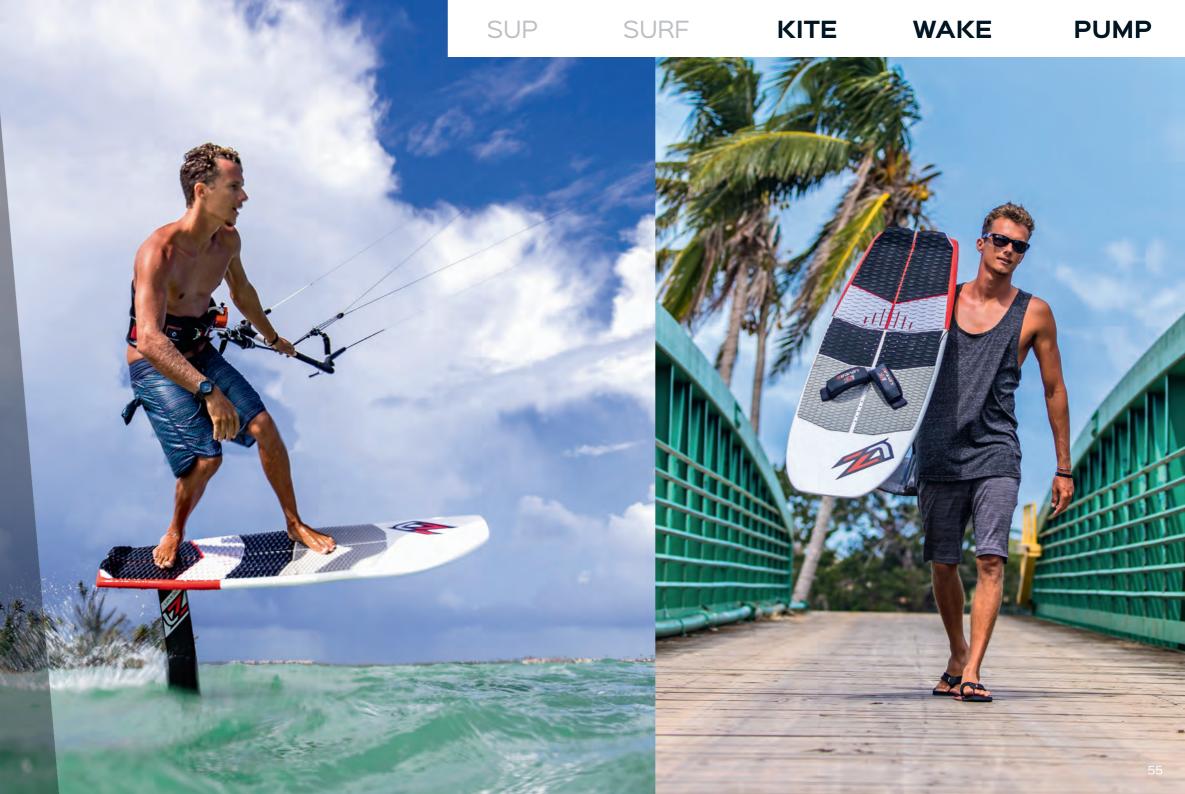


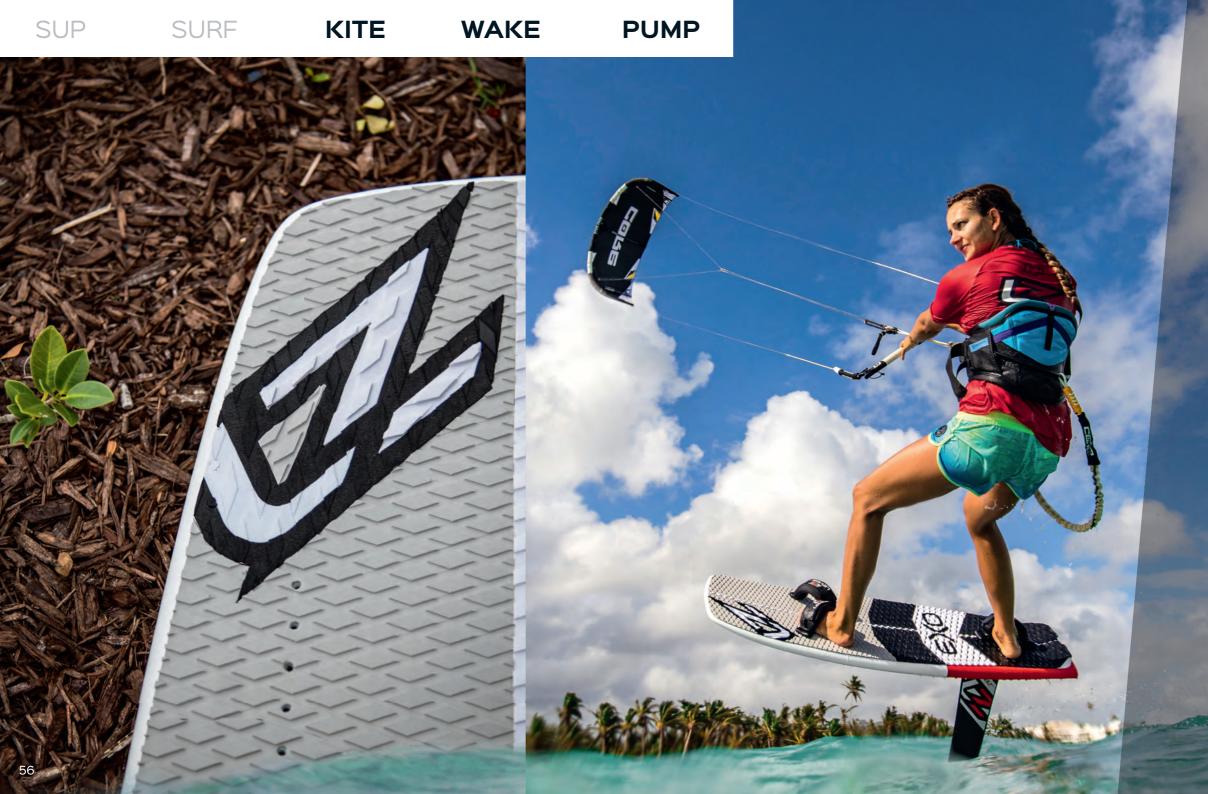
MATCH

// When freeriding becomes a feeling

The Match – a true foil board with beveled edges and a slightly concave deck for optimal control. These characteristics appeal to first-time flyers as well as amateur racers.

- User-friendly shape with beveled rails and concave deck
- 2 or 3-strap options for all foil riding styles and levels
- A board you can progress with and won't outgrow
- Lightweight carbon/glass fiber construction with strong reinforcements at the standing and foil mount areas
- Wide variety in terms of personal setup and fine-tuning options (sliding track system, 5-insert straps)
- Nose shape and S/R line optimized for soft touchdowns and early planning







// The water is your playground

The new flat deck provides great control, especially when foiling strapless. The bottom shape has a slight scoop-rocker with a wider nose designed in order to ensure optimal planning and good touchdowns.

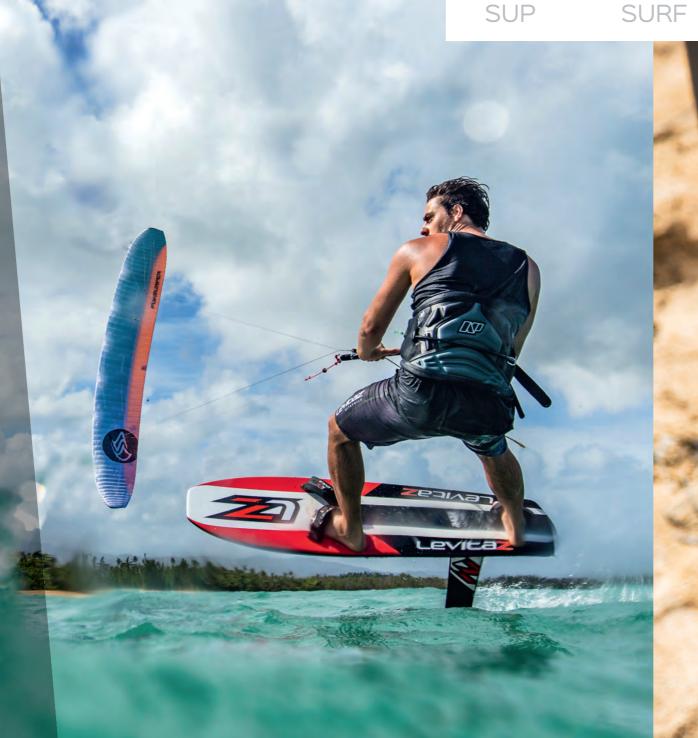
- Perfect for strapless foiling full deck pad with tail kick for the best possible stance
- Lightweight carbon/glass fiber construction with strong reinforcements at the standing and foil mount areas
- 2 or 3-strap options for all foil riding styles
- Wide variety in terms of personal setup and fine-tuning options (sliding track system, 5-insert straps)
- Nose shape and S/R line optimized for soft touchdowns and early planning



// Ultimate racing machine

The Raze is our "race car" in the portfolio and forms our connection to the pro circuit. The board, which was developed mainly for course race disciplines, provides professionals, as well as the ambitious amateur racer, with uncompromising performance.

- Lightweight carbon construction
- Wide variety in terms of personal setup and fine-tuning options (sliding track system, 5-insert straps)
- Beveled rails for aggressive leaning angles
- Nose shape and S/R line optimized for highest efficiency thanks to low air resistance and early planning ability
- Anti-slip varnish provides the perfect grip at low weight





WAKE

PUMP

KITE



TRANSBABT

#Two-in-one solution – foilboard and surfboard

The Transformer is an agile and solid 5 3" kite wave board with the option of mounting your foil. For this purpose eight thread inserts offer two mounting positions.

- Perfect for strapless wave kiting with tail kick position at rear footpad for radical wave riding
- Rear foot strap options for all foil riding styles and levels
- Optimized foot strap options for every riding style (kitesurf/wavekite/foil)
- Turning speed vs. upwind performance: smooth running in high speed kiting
- Lightweight carbon/glass fiber construction with strong reinforcements at the standing area, fin boxes and foil
- Wide variety in terms of personal setup and fine-tuning options (2 foil mount options, 5-insert straps)
- Nose shape and S/R line optimized for soft touchdowns (foiling) and radical surfing in steep and choppy wave conditions
- Thruster fin configuration and concave bottom shape are perfect for easy wave riding, full-speed escape from high waves or surfing down the line



MATCH Easy Foil; Strapless; Freeride; Freerace

SKU	Core	Glassing	Reinforcements
G440017	XPS	3 layers fiber- glass	Fiberglass Patches Carbon stringer HD-Foam

Dimensions	Volume	Weight	Foilmount
142 x 44 x 5.6 cm	19	3.6 kg* (7.9 lbs)	Sliding track system







// TECH FEATURES















BOARDS



SKU	Core	Glassing	Reinforcements
G440016	XPS	2 layers carbon	Fiberglass Patches Carbon stringer HD-Foam

Dimensions	Volume	Weight	Foilmount
125 x 44 x 5.6 cm	18 I	3.5 kg* (7.7 lbs)	Sliding track system

All Boards come ready to fly with straps and foil mount hardware.

*Approximate value, subject to small variations due to the custom manufacturing process.





SKU	Core	Glassing	Reinforcements
G440027	EPS	2 layers carbon	Carbon Patches Carbon stringer HD-Foam

Dimensions	Volume	Weight	Foilmount
145 x 44 x 7.5 cm	30	3.5 kg* (7.7 lbs)	Sliding track system



// TECH FEATURES









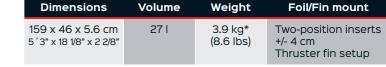












XPS 1 layer fiber-

All Boards come ready to fly with straps and foil mount hardware.

Core

SKU

G440018

*Approximate value, subject to small variations due to the custom manufacturing process.



TRANS B B C B

glass Carbon stringer
1 layer carbon HD-Foam

Kitewave; Strapless; Freeride

Glassing

Reinforcements

Fiberglass & Carbon Patches

// BAGS & COVERS

For the best ride you need the best gear. And the best gear needs the best protection.

All hydrofoils come ready to fly with suitable covers of highest quality and a handy travel bag. These accessories are especially tailored to meet foilers' requirements. The covers protect your valuable hydrofoil – mounted as well as dismounted – in the best way.

Additionally Levitaz offers various accessories for your most loved gear.









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Photographer: Alex Schwarz Videographer: Benjamin Geislinger

All riders pictured are professionals on a closed location. Do not attempt.

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