

PRODUCT GUIDE 2018 / 2019



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# // FOIL TECHNOLOGY

The shape of the foil 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 foils is to precisely design and craft these key elements. With over 25 years of experience in manufacturing composite materials, we have learned how to get it exactly right.

# FIVE REASONS TO FLY LEVITAZ FOILS

REASON // ONE

#### **PERFORMANCE**

// Profile sections and surface transitions are optimized using CFD simulations to obtain the highest possible stiffness.

// We use the 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 multi-purpose universal wing for all freeride foils simplifies the customization of your foil. If your aim is ultimate performance, we also offer a special wing for racing.

# REASON // TWO

#### **DESIGN**

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

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

#Levitaz foils are designed using meticulously finished materials.



# REASON // THREE

## **EVOLUTION**

"Levitaz foils 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 foils 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 seawaterresistant stainless steel ensures longevity and offers unparalleled possibilities.

// With automotive-industry 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 automotive standards

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

#100 % own foil development and production

// Made in Austria - Europe

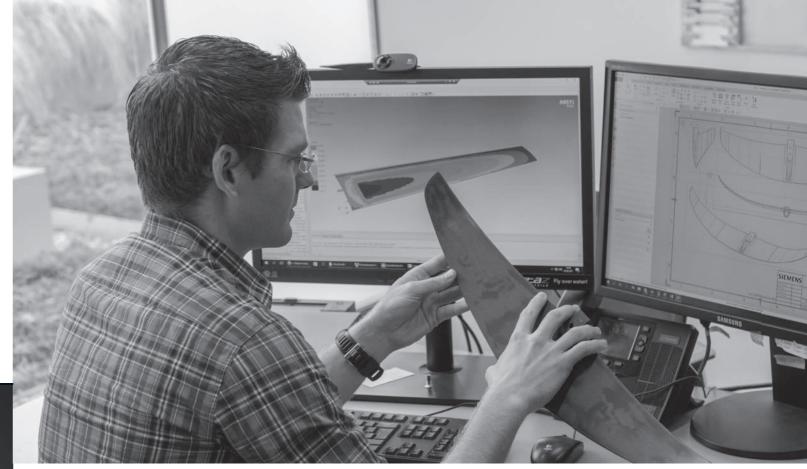
# The company behind the Levitaz brand ...

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 by Geislinger. Not only the fastest gas-powered high-speed ferry relies on a shaft by Geislinger, but also the largest wind turbines in the world are equipped with couplings 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 Kitefoils.

While the Levitaz development and innovation team is located at the headquarters in Salzburg, Levitaz Kitefoils 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 Kitefoils 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.

To handle a flux of forces, it is designed with a plate connection. Injected adhesive further ensures a durable, high-performance 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 adapted especially 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 for a great way to expand your possibilities.



## **PRE-CONFIGURED FOILS**

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

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

Our performance charts show our areas of focus for the setup configurations:



#### Accessibility

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

#### Getting up

describes the speed level when the foil starts to fly. The higher the riding speed, the more lift a foil creates. Higher scores mean the model starts hovering at lower speeds.

#### Maneuverability

shows how agile the foil responds. The higher the rating, the better the turning track stability.

#### 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. 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 FOIL MODEL



# CUSTOMIZE YOUR FOIL & CHOOSE YOUR FAVORITE (1) MAST



Depending on your riding level or style, preferred location or conditions, you can personalize your foil with the suitable mast, front wing, fuselage and rear wing.

You'll find the perfect setup!

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YOU ARE INDIVIDUAL AND SO IS YOUR FOIL.

# FREERIO





# THE ELEMENT

The Levitaz Element is the classic 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 perfect balance between accessibility, stability and maneuverability makes this versatile model ideal for intermediate foilers.





# FREERIDE FREERACE BIG AIR

- # Speed-oriented for optimal control at high speeds
- // Excellent upwind performance

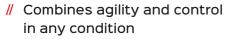
# ASPECT

The Levitaz Aspect is the freeracer in the Levitaz foil 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. And great control at high speeds is one of its strengths. With its unique features, the Aspect also provides amazing jumping capabilities. Advanced foilers will love the sporty performance of our freerace foil.



# THE RUSH OF **ADRENALINE.**



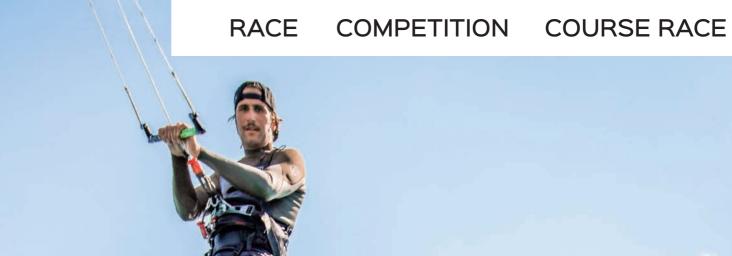


- // Enables top speeds
- // Perfect balance between
   upwind and downwind performance

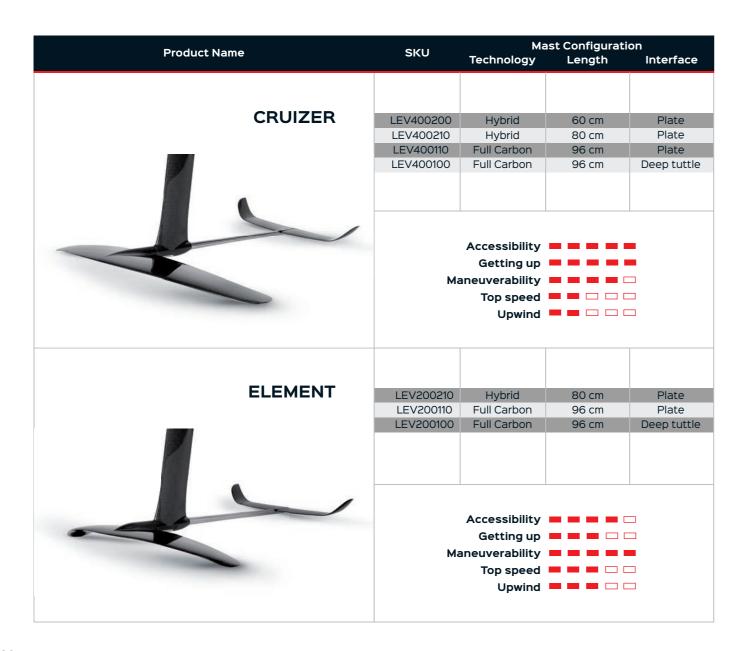
# BIONIC

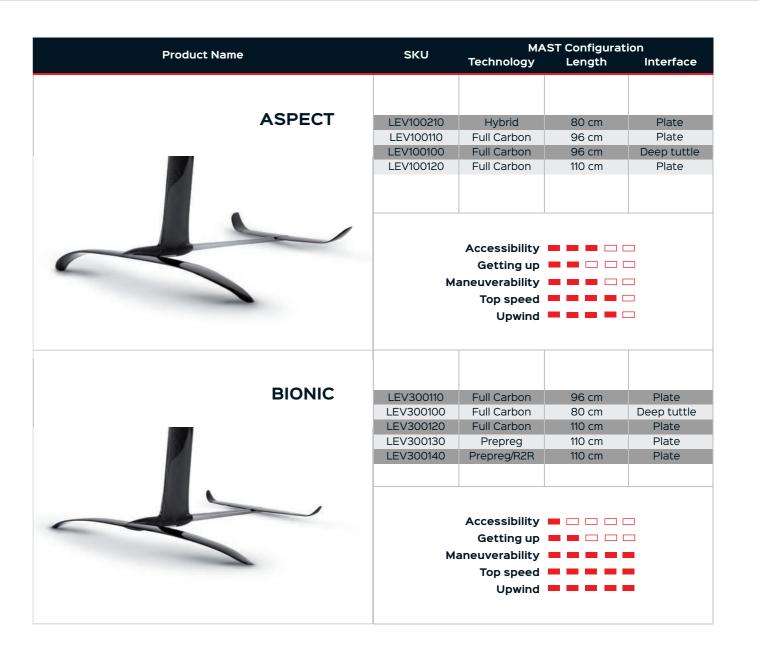
The Levitaz Bionic is the ultimate racing machine. As proven in the world series, the Bionic is one of the most used foils by the world's top riders. With its radical design, the Levitaz Bionic provides the lowest drag and consequently the most efficient upwind performance and highest speeds, expanding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





# KITEFOILS







# FRONT WINGS

# REAR WINGS

# WINGS

Product Name	SKU	Range of Application	Characteristics	Wing Area	Span	Root Chord	Aspect Ratio
CRUIZER	G435792	Easy Ride Freeride Strapless	Low take-off speed Wide lift surface Highest stability	989 cm²	632 mm	190 mm	4.2
ELEMENT	G429376	Freestyle Freeride All-round	High maneuverability	679 cm²	501 mm	163 mm	3.9
ASPECT	G429188	Freeride Big Air Freerace	Speed oriented Excellent upwind performance	578 cm²	598 mm	118 mm	7
ASPECT HW	G431773	Freerace Big Air Race	Strong wind Overpowered conditions	385 cm²	581 mm	94 mm	10
BIONIC	G437588 [G435986]	Race Course race	Course Race balanced [also available with R2R Finish]	506 cm²	641 mm	114 mm	8.5

Product Name	SKU	Recommended Combinations	Characteristics	Wing Area	Span	Root Chord	Aspect Ratio
FREERIDE	G429187	Cruizer Element Aspect Aspect HW Freeride Fuselage	Great stability Versatile usage for all Freeride foils	239 cm²	379 mm	70 mm	7
BIONIC	G438213 [G440537]	Aspect Aspect HW Bionic Bionic Fuselage	Course Race balanced [also available with R2R Finish]	190 cm²	380 mm	65 mm	8.5

# **FUSELAGES**

Product Name	SKU	Recommended Front wing	Recommended Rear wing	Lenght	Characteristics
FREERIDE	G429184	Cruizer Element Aspect Aspect HW	Freeride	65 cm	Great pitch stability Versatile usage for all Freeride foils
BIONIC	G435792	Aspect HW Bionic Bionic R2R	Bionic	55 cm	Low drag Highest maneuverability

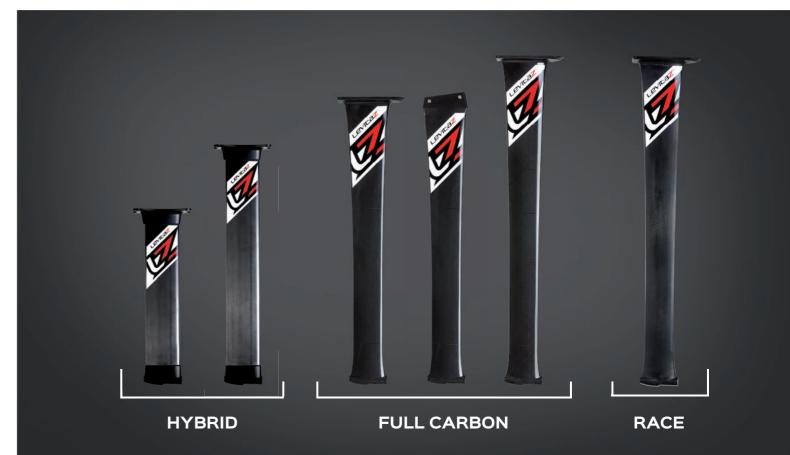
# HYBRID FULL CARBON

**RACE** 

# MASTS

Product Name	SKU	Range of Application	Length	Technology	Interface
HYBRID 60	G438269	Beginner Easy Foiling Freeride Freestyle	60 cm	Anodized aluminum RTM carbon fiber	4 screw plate 165 x 90 mm
HYBRID 80	G438270	Beginner Easy Foiling Freeride Freestyle Wave	80 cm	Anodized aluminum RTM carbon fiber	4 screw plate 165 x 90 mm
HYBRID CUSTOM	G438271	All conditions and levels	30-99 cm	Anodized aluminum RTM carbon fiber	4 screw plate 165 x 90 mm
FULL CARBON 96 PLATE	G436225	Freeride Freestyle Freerace	96 cm	Full Carbon	4 screw plate 165 x 90 mm
FULL CARBON 96 DEEP TUTTLE	G436665	Freeride Freestyle Freerace	96 cm	Full Carbon	Deep Tuttle
FULL CARBON 110 PLATE	G436135	Freeride Freerace Race	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	Race Competition	110 cm	Full Carbon Prepreg	4 screw plate 165 x 90 mm







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 endless adjustment options.

# 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.





# 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.

For racing, we also developed a special anti-slip varnish, which provides the perfect grip at low weight.

# 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 beginners 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





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# #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 nose designed wider 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

# RAZE

**//** 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



Convertible

Foilboard and Surfboard

# THE TRANSBANGO

# // Two-in-one solution

The Transformer is an agile and solid 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

# **BOARDS**





Easy Foil; Strapless; Freeride; Freerace

SKU	Core	Glassing	Reinforcements
G440017	XPS	3L Fiberglass	Fiberglass Patches Carbon stringer HD-Foam

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





SKU	Core	Glassing	Reinforcements
G440027	EPS	3L Carbon	Carbon Patches Carbon stringer HD-Foam

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





Strapless; Freeride; Freestyle

SKU	Core	Glassing	Reinforcements
G440016	XPS	2L Carbon 1L Fiberglass	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



# **TRANS** B B W B C B

Kitewave; Strapless; Freeride

SKU	Core	Glassing	Reinforcements
G440018	XPS	3L Fiberglass	Fiberglass & Carbon Patches Carbon stringer HD-Foam

Dimensions	Volume	Weight	Foil/Fin mount
159 x 46 x 5.6 cm 5´3" x 18 1/8" x 2 2/8"	27	4.4 kg* (9.6 lbs)	Two-position inserts +/- 4 cm Thruster fin setup

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

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

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# // BAGS & COVERS

All foils come ready to fly with the suitable covers and a travel bag. These accessories are especially tailored to meet foiler's requirements. The covers protect your foil – mounted as well as dismounted – in your travel bag.



# **Editorial information:**

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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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