

# LEVITAZ Hydrofoils

## Manual



**LevitaZ**<sup>®</sup>  
HYDROFOILS

## Barcode labels

For the mast:

*Stick barcode label here*

For the frontwing:

*Stick barcode label here*

For the rearwing:

*Stick barcode label here*

For the fuselage:

*Stick barcode label here*

# Manual for Hydrofoil

GDM001167-ENG-E

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# 1 INTRODUCTION

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## General information

The Levitaz hydrofoil attaches to the bottom of any kind of watersport board and lifts the board out of the water as it is accelerated by an external force. Because the Levitaz hydrofoil reduces the drag on the board as it moves across the water, a user can often achieve a greater speed.

This manual contains important information about the proper use of the product and its safety. Follow these instructions carefully and precisely. This helps to reduce the risk of damage to the product, personal injury or death.

- This manual is part of the product.
- Keep this manual in a safe place for the entire life of the product.
- If the product is transferred to a new owner, this manual and all associated documents must be passed on to the new owner.

The meaning and appearance of safety symbols used in this manual are as follows:

 <b>WARNING!</b>	<p>The text after the signal word <b>"WARNING!"</b> contains important information, which must be followed to avoid serious personal injury or death.</p>
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<b>NOTICE!</b>	<p>The text after the signal word <b>"NOTICE!"</b> contains information, which must be followed to avoid damage to the product.</p>
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Use of this product and any of its components, as well as hydrofoiling in any type of water sports involves certain inherent risks, dangers and hazards. Even if all the following instructions are followed, the risk of serious injury or death to you or others will not be eliminated. Levitaz, a brand of Geislinger GmbH or any of its agents shall not be liable for any loss, cost, claim, damage, demand or expense you may suffer whatsoever arising as a result of your actions when using the product.

## 2 WARNING & SAFETY PRECAUTIONS



### WARNING!

Hydrofoiling in any kind of water sports is inherently a dangerous activity that can result in serious injury or death to the user or people in the proximity of the user, with or without a Levitaz product. These risks include drowning or being hit by the product if the user loses control of it. The product may increase the risk of some injuries to users or bystanders by adding additional structure to the board that may strike users or bystanders; by increasing the speed at which the board can be operated, or by changing the manner in which an out-of-control board reacts as it contacts water or ground during an out-of-control situation. The user of this product should understand that the use and participation in the sport and any foiling activity could cause injury or death to you and/or others around you.

#### OBSERVE THE FOLLOWING SAFTY STANDARDS WHENEVER USING THIS PRODUCT:

- Hydrofoiling and kite boarding are dangerous sports.
- Use of this product exposes the user to unexpected and unavoidable risks, dangers and hazards.
- Read the manual for important information about the installation, care and maintenance of the board before use.
- Always use extreme caution when using this product.
- Never use this product unless you are in good physical health.
- Never use this product unless you are an experienced swimmer.
- Never act in a careless manner when using this product.
- We do not recommend hydrofoiling in breaking surf.
- Always observe local rules and regulations when using this product.
- Always wear an approved life and protection vest.
- Always wear a suitable helmet.
- This product is designed for use on water only.
- Make sure you take lessons before using this product on the water. Never use this product in conditions that are above your ability level.
- Surf under control and do not use at speeds that exceed the skills of the rider.
- Never use this product in shallow water or near the shore, or near docks, pylons, swimmers or other activities.
- Do not use this product in thunderstorm and/or lightning conditions.
- The users are responsible for their safety and the safety of those around them.
- Components in this product are subject to the random forces of natural elements and are subject to irregular wear.
- Only use original Levitaz replacement parts.

- It is the user's responsibility to inspect equipment for wear before every use.
- It is the user's responsibility to repair and maintain this product.
- The use of damaged products is not allowed.
- Before riding ensure that the bolts are tightened with the tightening torque that is described in this manual.
- Geislinger GmbH is not responsible for injuries, death or damage to the product due to misuse or any use not consistent with these instructions.
- Do not use this product under the influence of alcohol, drugs or medications.
- Minimum age of rider: 18 years.
- At temperatures above  $\geq 650\text{ }^{\circ}\text{C}$ , decomposition of the carbon fiber can cause respirable fiber particles (WHO-fibers). Do not inhale combustion gases.

Failure to follow these instructions may increase the risk of serious personal injury or death, damage to the product or both.

### 3 APPLICATION OF THE PRODUCT AND TECHNICAL DATA

The product will only function properly if it has been mounted according to the instructions contained in this manual. Carefully follow these instructions.



**WARNING!**

**This product is designed for use on water and by trained personnel (over 18 years) only.**

**Failure to do so may cause serious personal injury or death, damage to the product or both.**

**Material:** carbon; steel; aluminum

The Levitaz hydrofoil can be used with any board that has 4 metric bolt threads or any track system fitting to Levitaz plate interface dimensions. The mast interface to the board has 4 through or slotted holes (suitable for max. M8 bolts). The mounting surface of the mast is 90 mm wide and 165 mm long. See fig. 3.1.

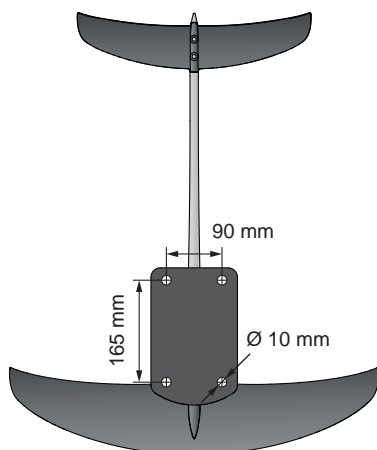


Figure 3.1: Bolt connection to the board

**The connection bolts between the hydrofoil and the board are not delivered by Levitaz. Please make sure to use stainless bolts provided with a minimum strength class 70.**

### 3.1 Connection to the board

- Check that the board and the hydrofoil are lying flat together. See figure 3.3.
- The bolt contact surface (between bolt and mast) must be at least 16 mm in diameter. Levitaz recommends using washers to prevent wear. See figure 3.4.

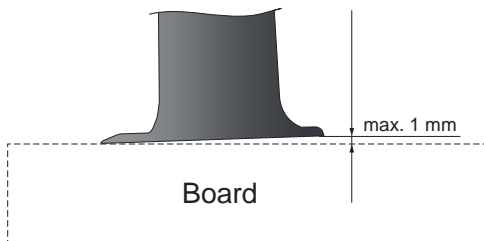


Figure 3.3: Permissible unevenness

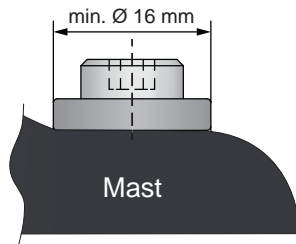


Figure 3.4: Washer



**WARNING!**

The user is responsible for compatibility with the board. Do not exceed the maximum permissible unevenness of 1mm between the hydrofoil and the board.

Failure to do so may result in the product not operating properly, can reduce its service life, and possibly result in injury to the user or others.

If a board manufacturer's warranty is affected by alterations to the board, you should consult their warranty information before the installation of the hydrofoil.



## 4 HYDROFOIL DESCRIPTION

The standard foil consists of 7 parts: The mast (1), the front wing (2), the rear wing (3), the fuselage (4), the plate (5) and the screws (6+7). (Exception: Hydrofoils with front wings bigger than 1000 cm<sup>2</sup> have an integrated plate, which means that they consist of 6 parts).

The fuselage which passes through the mast, combines the front wing and the rear wing with the mast. The connecting plate (steel or integrated in the wing) ensures a torque rigid connection between the front wing and the mast. See Figure 4.2.



Figure 4.1: Symbol photo of set parts



Figure 4.2: Symbol photo

### Part list of foil set:

No.	Designation
1	Mast
2	Front wing
3	Rear wing
4	Fuselage
5	Plate (only with front wings <1000cm <sup>2</sup> )
6	4 Screws M6x20 (long)
7	2 Screws M6x14 (short)
	Carrier bag
	Cover set
	Mounting tool
	Anti-seize paste (Loctite)
	Manual
	Warning label

## 5 HYDROFOIL INSTALLATION INSTRUCTIONS

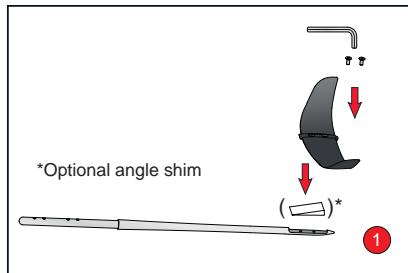


Figure 5.1

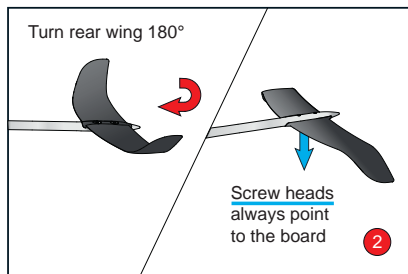


Figure 5.2



Figure 5.3

1. Place the fuselage with the recess facing upwards. Place angle shim in correct direction (\* if recommended for your model). Put the rear wing onto the (angle shim and) recess of the fuselage. Tighten both screws M6x14 to **9 ±1 Nm tightening torque** with the Levitaz mounting tool.

2. Turn the fuselage with the rear wing 180°. The screw heads always point to the board.

3. Now put the fuselage (screw heads point to the board) into the through hole of the mast. Push it until the fuselage touches the end and align the fuselage and the mast screw holes.



Figure 5.4

4. Hold the fuselage with one hand and attach the front wing to it with the other hand. Push it together and align the fuselage and the front wing screw holes. For front wings with integrated plate make sure the wing is in the correct angle to fit the mast.



Figure 5.5

5. \*\* If your model has a plate place it onto the mast and front wing.  
Before use grease screws with the anti-seize paste (Loctite) under screw head. Tighten all four screws M6x20 to **9 ±1 Nm tightening torque** with the Levitaz mounting tool.

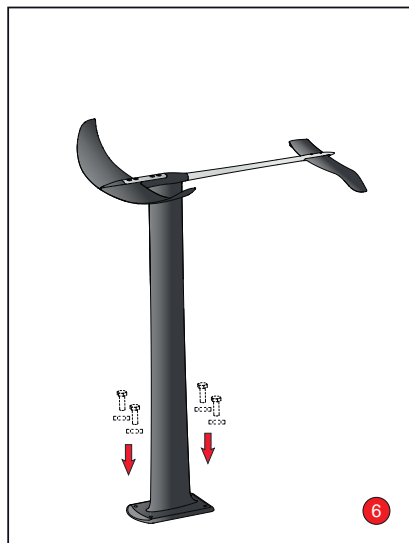


Figure 5.6

6. As a final step: Mount the Levitaz hydrofoil onto your board. The bolts are not supplied by Levitaz. See chapter 3.1 "Connection to the board".

**WARNING!**

The components of the Levitaz hydrofoil can have sharp edges.

For users and any other personnel involved there is a danger of injury while the components are being assembled and while the Levitaz hydrofoil is in use.

**NOTICE!**

Do not use an electric screwdriver, hammer or other sharp objects for the assembly or disassembly process.

This may cause serious damage to the product.

## 6 DISASSEMBLY OF THE HYDROFOIL

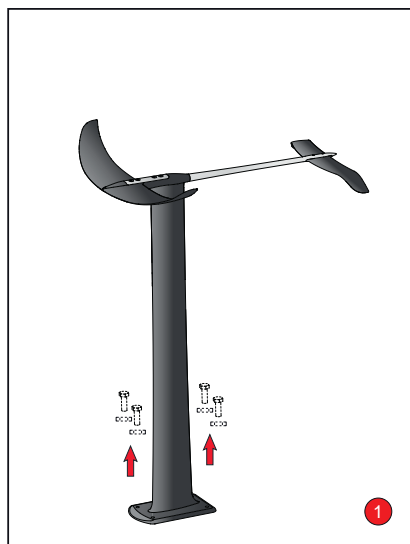


Figure 6.1

1. Depending on the mast model (through or slotted holes) remove or loosen the bolts from the hydrofoil - board connection.

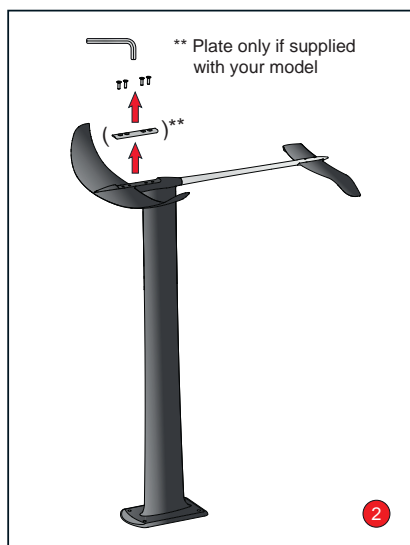


Figure 6.2

2. Remove all four screws M6x20 and the plate (\*\* if supplied with your model) with the Levitaz mounting tool.



Figure 6.3

3. Pull out the front wing.



Figure 6.4

4. Pull out the fuselage.

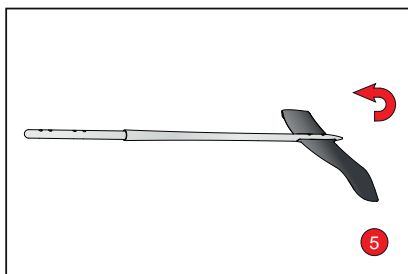


Figure 6.5

5. Turn the fuselage with the rear wing 180°.

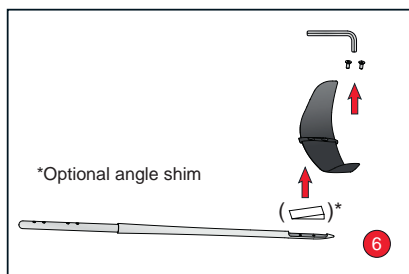


Figure 6.6

6. Remove both screws M6x14 with the Levitaz mounting tool and remove the rear wing. Take care of the possible angle shims underneath.



**WARNING!**

The components of the Levitaz hydrofoil can have sharp edges.

For users and any other personnel involved there is a danger of injury while the components are being assembled and while the Levitaz hydrofoil is in use.

## **STORAGE**

See chapter "Packaging and Storage".

**NOTICE!**

Always store the disassembled product in the durable carrier bag for optimal protection.

Failure to do so can reduce the service life of the product.

## 7 PACKAGING AND STORAGE

All parts are packed in a cardboard box. Every hydrofoil set comes with a suitable cover set and durable carrier bag, specially designed to hold the valuable Levitaz hydrofoil.

- Take the parts out of the box.
- Remove the packing film from the product parts. Check the product parts for possible damage that may have occurred during transportation.
- Stick the parts' bar code label on the first page of this manual.



Figure 7.1: Symbol photo of carrier bag



Figure 7.2: Symbol photo of cover set

### DISPOSAL OF STANDARD PACKAGING

The cardboard box and PE film can be recycled.

### STORAGE INSTRUCTIONS

The following instructions must be observed to prevent the product from being damaged during storage:

#### **NOTICE!**

**Only store the product clean and dry in disassembled condition and in its covers and suitable bag for optimal protection.**

**Failure to do so can reduce the service life of the product.**

- Do not place heavy parts on top of the product.
- Do not leave or store the product in cars.
- Protect the product from direct sunlight or heat.

Storage temperatures:

NOT PERMITTED	OPTIMAL	PERMITTED UP TO	NOT PERMITTED
< -30 °C (-22 °F)	-10 °C – +25 °C (+14 °F – +77 °F)	+80 °C (+176 °F)	> +80 °C (+176 °F)



## 8 MAINTENANCE AND REPAIR INFORMATION

### 8.1 Maintenance

Clean all hydrofoil parts with fresh water after every use and dry the parts. Disassemble and rinse with fresh water after every use. Always store the disassembled product in its covers and the durable carrier bag for optimal protection.

<b>NOTICE!</b>	Failure to do so may cause serious damage to the product and void the warranty.
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### 8.2 Repair information

INSPECTED CONDITION	CORRECTIVE MEASURE
Visible fiber failure or any other heavy damage like delamination (separation of the single layers of the composite).	<b>DO NOT REPAIR</b> the reinforced plastic components! Dismantle the product and send it back to Levitaz.
It is not clear if the damage is critical or not.	Take a photo, document the extent of the damage and contact Levitaz for advice.

If any other damage or wear to the product is identified but not described in this table, contact Levitaz to identify the appropriate corrective measure. See [www.levitaz.com](http://www.levitaz.com)

Dispose of worn parts as instructed in the chapter “Disposing of used parts”.

## 9 DISPOSING OF USED PARTS

After replacing individual components:

- All metal parts can be recycled (scrap metal).
- All old fiber reinforced plastic parts must be disposed of as residual waste.

Federal, state and local regulations must always be observed when disposing of the product or parts thereof.

## 10 ORDERING REPLACEMENT PARTS

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### NOTICE!

Use only original Levitaz replacement parts.

Failure to do so may cause serious damage to the product and void the warranty.

Stick the parts' bar code label on the first page of this manual. This will help to speed up your order for replacement parts or any possible troubleshooting.

## CONTACT INFORMATION

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### LEVITAZ Hydrofoils

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## WARRANTY POLICY

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Levitaz warrants this product to be free from major defects – in material or workmanship – to the consumer, as defined by the Consumer Protection Act for a period of 24 month within the EU and six months outside the EU. If the customer is a company, it must inspect the goods provided immediately for non-conformances in quality and defects and must notify us in writing within two weeks from receipt of the goods; otherwise, assertion of warranty claims is excluded. To meet the deadline, the notice must be sent on time.

### This warranty is subject to the following limitations:

The warranty is valid only when this product is used for normal recreational activities and does not cover products used in rental or teaching operations.

Levitaz will make the final warranty determination, which may require inspection and/or photos of the equipment, which clearly show the defect(s). If necessary, this information must be sent to the Levitaz head office or distributor in your country – postage prepaid. Product may be returned only if a return authorization is given in advance by the Levitaz head office or official distributor.

If a product is deemed to be defective by Levitaz, the warranty covers the repair or replacement of the defective product only. Levitaz will not be responsible for any costs, losses or damages incurred as a result of loss of use of this product.

This warranty does not cover damage caused by misuse, abuse, neglect or normal wear and tear including, but not limited to: punctures, rigging with other than Levitaz components, damage due to excessive sun exposure or damage caused by improper handling and storage, damage caused by use in waves or shore break and damage caused by crashing the foil at high speed, or damage caused by anything other than defects in material and workmanship.

This warranty is void if any unauthorized repair, change or modification has been made to any part of the equipment. The warranty for any repaired or replaced equipment is good from the date of the original purchase only. The original purchase receipt must accompany all warranty claims. The name of the retailer and date of purchase must be clear and legible.

There are no warranties which extend beyond the warranty specified herein.

# FLY OVER WATER

Levita**Z**.com

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