



RRD H-FLIGHT HYDROFOIL & DOLPHIN1 KITEFOIL BOARD

OWNERS' MANUAL AND ASSEMBLING INSTRUCTION



- ENGLISH MANUAL -

French, German, Spanish, Italian version online on:
www.robertoriccidesigns.com

SAFETY

READ THIS MANUAL CAREFULLY BEFORE USING YOUR “RRD H-FLIGHT HYDROFOIL AND DOLPHIN1 BOARD” AND KEEP IT STORED FOR FUTURE READING

RRD strongly recommends to follow kiting lessons in a specialized school before using a hydrofoil for the first time. The use of a hydrofoil involves inherent risks and can cause severe injuries or, sometimes fatal, accidents if misused.

To find your nearest school, please check online on the www.robertoriccidesigns.com website under the tab « schools ». When using a hydrofoil, you agree to take full responsibility for your own safety and those of others. This includes informing subsequent users/owners of your equipment of the risks and responsibilities involved. Before practicing, make sure that you are properly covered by an insurance for any damage or injuries caused to third parties while practicing kiting sports. Please refer to your national kitesurfing body or federation to get more information on insurance and responsibilities.

SAFETY TIPS:

Constant care and caution remains the best way to avoid any problem but specialized equipment contributes to your own safety as well. Please keep in mind that wind and weather can be unpredictable and that no-one can be in full control of the hydrofoil at all times.



• Rule N°1: YOUR PERSONAL SAFETY

It is strongly recommended to practice in the company of other users who could eventually call for assistance or help in case of emergency. You should never ride alone.

• Rule N°2: PERSONAL SAFETY EQUIPMENT

Helmet:

It is strongly recommended to wear a helmet to protect you in case of a fall or any other unexpected situations and especially when launching and landing the kite from the ground.

Wetsuit :

Choose a full-length wetsuit [water T° <19°C[66°F]] or a shorty [water T° >19°C[66°F]] depending on the water temperature. But be aware that you will use more energy when you are cold.

Impact vest :

The impact vest can be a critical piece of equipment if you take a hard crash and will become a true asset if you ever have to swim back to the shore. It can also help you with the waterstart and the relaunch of your kite.

• Rule N°3: CHOOSE YOUR SPOT CAREFULLY

Choose your spot depending on your level :

The choice of a good spot is an essential decision for safe learning. The best spot is not necessarily the spot where you find the most kites. To choose your place of practice, it is important to select a spot suited to the practice of hydrofoil. Using a hydrofoil requires a deeper water depth than the other kitesurfing disciplines. Favor a spot without reefs or rocks and avoid overcrowded areas. Observe local laws and regulations regarding kitesurfing and in the area you plan to use the equipment.

Wind direction :

Don't ride in offshore wind. The wind can die at any moment or you could have an equipment failure. In offshore wind it is harder to swim back to shore, the wind and the current push you away from the beach.

It is also not recommended to ride when the wind is directly on-shore, especially for beginners, as the wind will push the rider directly onto the beach. Choosing the wrong wind direction will make your learning harder. Always ride while the wind is side or side-on. These directions will let you go downwind while maintaining a safe position in case of an emergency.

• Rule N°4: KNOW THE WEATHER FORECAST

Be up-to-date with the local weather forecast, (apps. radio, web, harbor crew, local schools). What strength is the wind and from which direction? You must know how the speed of the wind and the direction are going to develop during the day. Because the hydrofoil enables you to ride even in marginal conditions, keep in mind the wind can quickly die completely. You should not ride during stormy weather. Also check on the tides schedule and the areas for rip currents.

• Rule N°5: HELP OUT OTHERS AND SHOW RESPECT

Help out others:

Keep a constant eye on your surroundings, and pay attention to others. Do not hesitate to help out or go after a struggling kitesurfer. But make sure you don't bring yourself in danger.

Respect bystanders :

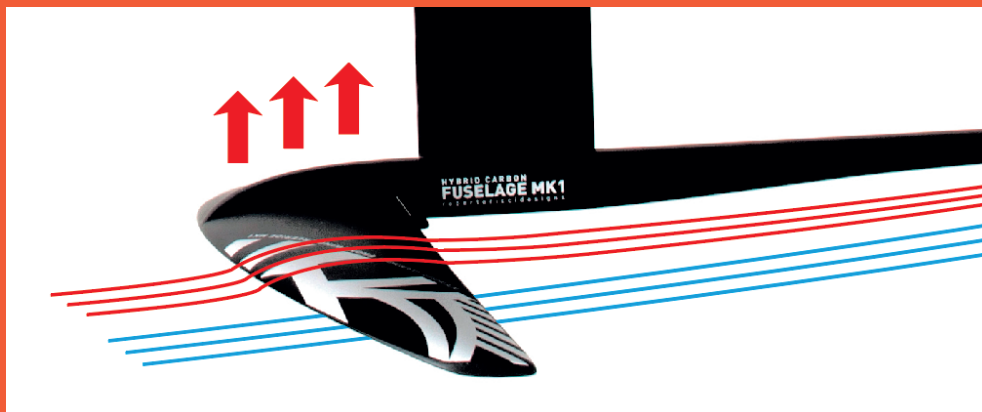
Never lend your equipment to a non kitesurfer. Inform the spectators of the power of the kite and of the potential risk by staying downwind from a kitesurfer.

Before using your foil make sure you read this

! WARNING MESSAGE !

- Always familiarize yourself with all applicable federal, state and local laws, the waterways, the area, and the proper use of the equipment.
- Always read your owner's manual and understand your equipment before using it.
- Always inspect equipment before each use, including all components of your foil, your board and the connections between components and the board mount. Never use and equipment with missing, damaged or defective parts.
- Use caution when transporting your foil, both for the safety of yourself and others and for the longevity of your equipment.
- Always wear protective equipment appropriate for the environment and conditions in which you are using your foil and your foil board.
- Always use a helmet.
- Never use a board leash when foiling.
- Always use a State/Country Marine department approved boating vest and protective shoes.
- Always ride in control, away from hazards, and at speed appropriate for your ability. Do not foil in shallow water or near shore, pilings, docks, rafts, swimmers, other watercraft or other obstacles.
- Falling and the injuries or death that may result, are inherent risks in the sport.
- Do not operate any watercraft, kiteboard, or foil under the influence of alcohol or drugs.
- The warnings and practices set forth above represent some common risks encountered by users.
- This list does not purport to cover all instances of risk or danger. Please use common sense and good judgment.
- GET TO KNOW THE RRD KITEFOIL

The front and rear wings of the hydrofoil work as lifting devices. The wings create a lifting force from the flow of water that travels across them at speed. This is the reason why they are built with a specific sectional profile:



The shape of the wings' profile shall not be modified, filled and sanded. Doing so would alter the balance and prevent the correct operation of the kitefoil.

! WARNING MESSAGE !

In order to guarantee the correct behavior and performances of the kitefoil, the rear edge (trailing edge) of the wings must remain very thin, thereby making this part more fragile in case of impacts. During handling and use of the kitefoil, the user should be particularly cautious with these sharp areas in order to avoid any risk of injury.



USING THE RRD H-FLIGHT HYDROFOIL :

On shore Handling :

The RRD kitefoil should always be laid on its side when left on the ground, Never leave the kitefoil (assembled with the board) standing up or upside down. It can easily fall on its side and get damaged.



When heading for the water, the kitefoil should always be carried on its side with the board under your arm.

Hold the board just forward of where the foil mast is attached to the board, like this:



Water handling:

Walk into the water while keeping your board and foil under your arm (board on its side) Go deeper into the water until reaching a water patch deep enough for the size of the foil.

! WARNING MESSAGE !

A safety margin is required as the board and foil will sink to some degree when the rider gets onto the board. To prevent any risk of collision with a reef or a shoal, it is strongly recommended to get dragged away from the shore using the kite while keeping the board and foil and its side, until reaching deep enough water.

When heading back to the shore, it is necessary to get off the board at the same distance from the shore that had been required to start safely. Again, it is recommended to walk or use the kite to get dragged back to the shore. During these phases, the board must be kept on its side under your arm.

TO KEEP THE RRD H-FLIGHT HYDROFOIL IN GREAT CONDITION : **After every use, make sure you always:**

- Clean and rinse all the parts of the kitefoil before storing them.
- Take apart the front and rear wing and fuselage from the mast.
- Protect the parts by storing them in their original packaging or using another appropriate protection.
- If chips, dents, or bumps appear following an impact, fill with epoxy resin or primer and sand until the local surface is smooth and clean. It is strongly recommended to let a professional handle these kinds of repairs.
- Make sure the surface of the blades remain smooth and clean. The kitefoil works using a dynamic equilibrium and the flow around the wings can be very sensitive to any damages. Sudden stalling can happen if the surface condition of several parts are compromised. Stalling the foil can unsettle the rider and result in abrupt falls.

IMPORTANT NOTE

Our H-flight hydrofoil is composed of Prepreg Carbon parts (Fuselage, Front and Rear Wings) and Aluminium parts (Mast and Base Plate) assembled together by stainless steel screws.

While the Carbon parts are also equipped with stainless steel plates where the screws are attached, the Aluminium parts have a direct inner female thread where you screw the stainless steel screws. Aluminium threads and Stainless steel screws used in Sea Water will create an oxidation process that must be prevented in order to maintain the assembling and disassembling process and easy one to be performed and keep a long product lifetime.

To help this process we strongly recommend to follow this maintenance precautions:

After use, always disassemble the fuselage from the mast, and the base plate from the mast and rinse the Aluminium screw holes with fresh water.

In order to keep the Aluminium screw holes properly maintained and free from oxidation, we strongly recommend the use of this product: Tef-Gel made by TIKAL, (corrosion eliminator GEL) that should always be spread around the female threaded holes in the Aluminium parts.

SCREW GUIDE

2X

6X

3X

3X

4X

20 mm

25 mm

30 mm

50 mm

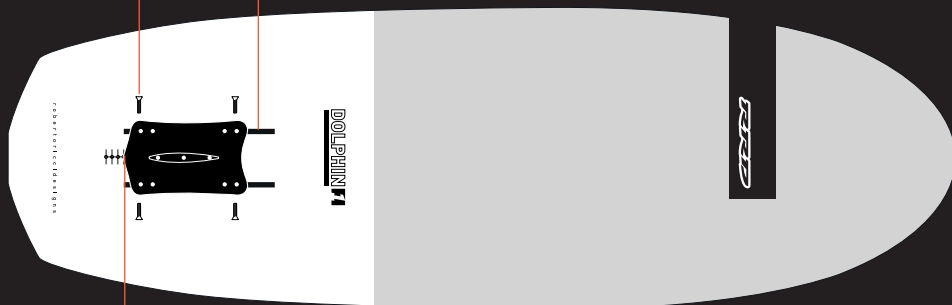
Insert



Put the 4x insert
inside the finbox
to fix the screws



4x
25 mm



Correct base plate position
Suggested position: #3

CORRECT POSITION FOR 3 DIFFERENT SCREW LENGTHS



HYDROFOIL ASSEMBLING INSTRUCTION

In order to assemble your new H-Flight Hydrofoil correctly pls follow this instructions:

- 1) Assemble the 6 x holes Aluminium Base Plate onto the Aluminium mast, inserting 3x 30mm screws.
- 2) Insert 4 x 25 mm screws with brass 'T'- nut inside the 2 x US boxes of your kitefoil board, and position the mast assembled with the 6 x holes Aluminium Base Plate onto the 2 US boxes of the board. Position the plate on the desired setting and tighten the 4 x screws onto the 4 x 'T'- nut inside the US boxes.
- 3) Take the Fuselage, and assemble the Rear Wing with the 2 x 20 mm screws.
- 4) Now assemble the fuselage with the Rear Wing and on to the open end of the Aluminium mast (foot) and tighten the 3 x 50 mm screws.
- 5) Once the fuselage is assembled onto the mast, take the Front Wing and assemble it onto the Fuselage with the 2 x 25 mm screws.

Where to place the mast base:

RRD uses a 4 hold plate on the mast, because that is the safest system. With 4 solid screws you can also move the foil back and forward, depending on your skill level.

RRD suggests beginners to place the mast base at the back in the position number 2 or 3 (see scale on our board). Try for yourself, but most riders prefer position number 3, but you can also play with where to position your footstraps. key is to push the nose down and avoid excessive lift when you foil.

Once you get started to get more in to manoeuvres, jibing, tacks etc, you can move the foil forward, so the foil becomes a bit more manoeuvrable and a bit faster. It's just a subtle difference; but we wanted to have that as well on our board, so the RRD kite foil will take you the fastest to the next level.

You are now ready to go foiling!





RRD Dolphin1 kite foil board

The Dolphin1 is a full composite board with a wood deck and bottom, it has PVC reinforcement under the heel area and a special shaped full concave deck. It allows your feet to be completely pointed down towards the nose and the middle part of the board, A correct foot and legs position is what you want to have when you foil. The rails have a special pronounced tucked under edge bevel, which reduces the impact when you come down from height.

So touch downs are very smooth when the nose touches the water and allows you to quickly get up and go again instead of nosedive. At the same time it has a nice and thin volume that helps the board to stay light; all these characteristics are perfect for a freeride shape. The size is 160 x 52 cm, so it is balanced for riders of any type of height and depending on your skills and preferences you can have around 10 cm of footstrap adjustment in the front and in the back, next to the different options of where to place the mast on the bottom.



160 x 52cm

‘RRD Aviation Academy’ package (optional)

To reduce the learning curve and make Kitefoiling accessible to everyone, we also offer two different additional mast lengths to the standard mast as an optional ‘RRD Aviation Academy’ package for schools and beginners; the standard 90cm ‘Full Flight’ mast is included, and the optional 40cm ‘Take Off’ and/or 65cm ‘Touch & Go’ masts are available as spare parts.

One of the most important things is having a wing and fuselage that allow the perfect balance in between your feet. This balance will provide a progressive entrance to foiling, not a difficult one. The front wing, fuselage, and rear wing, enable the foil to rise out of the water progressively and smoothly at the right speed, increase stability, and allow it to easy go down-wind which is essential. Starting with a shorter mast length will also aid to the progressive entrance into kite foiling.

Our really short, 40cm mast (‘TAKE-OFF’ level), is designed to develop the necessary skills to come out of the water, to get the feeling of a foil under your feet, and the way you position your body on to the board. The reaction to the foil is also exactly the same as the full height mast and will allow you to come out of the water, but not at an intimidating height. Once this stage is mastered, it is time to move to a new level, which is the 65 cm mast that allows more of a lift above the water.

The 65cm mast (‘TOUCH & GO’ level) provides the full foil feel for the first time without being too intimidating. This stage of the progression process can last anywhere from 2 days to some weeks, depending on your personal skills and available time. Once comfortable with the foil in many different conditions without issues, it is time to progress to the full length 90cm mast.



FULL FLIGHT 90



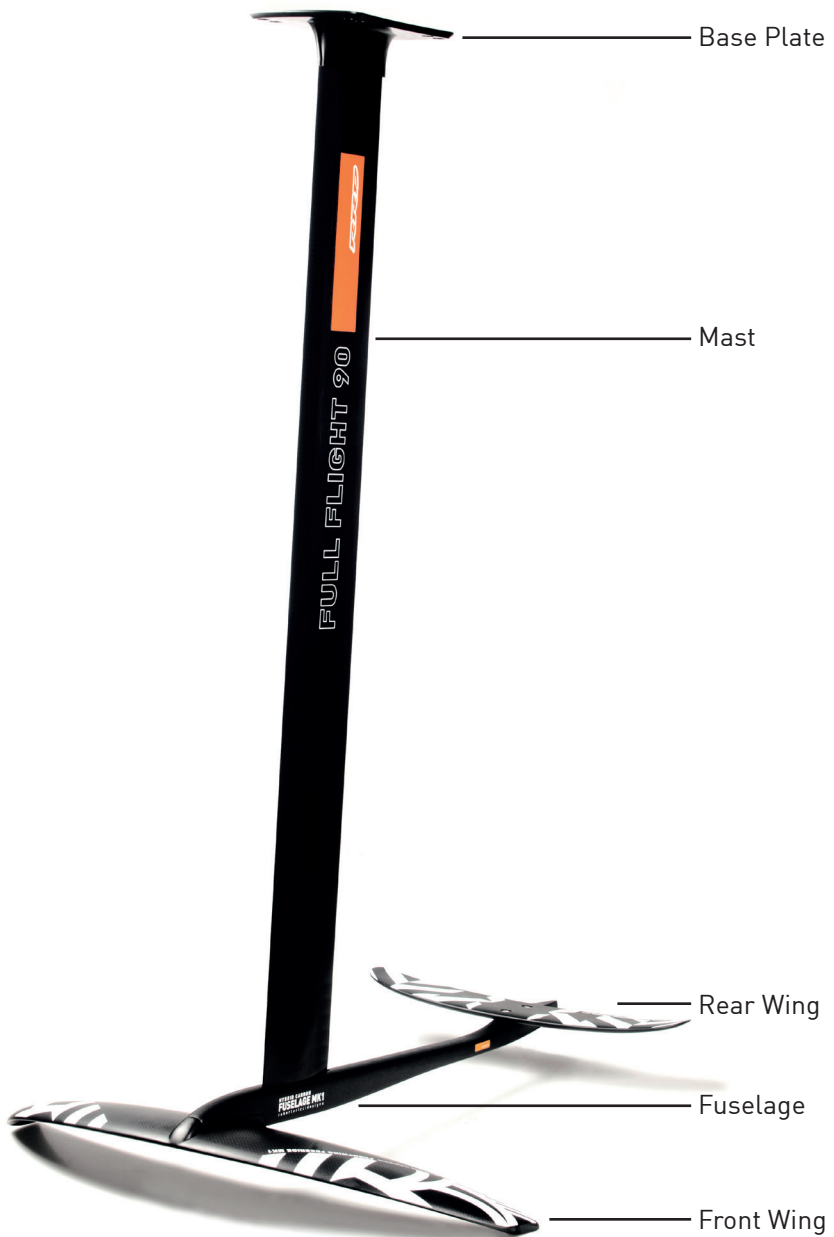
TOUCH & GO 65



TAKE OFF 40

Optional ‘RRD Aviation Academy’ package (mast only)





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