

The logo features the word "MOSES" in a stylized font. The "M" is red, while the "OSES" is white. The letters are set against a dark background with wisps of white smoke and a horizontal band of red and orange flames passing through the middle of the text.

# MOSES

THE ITALIAN FOIL



[WWW.MOSESHYDROFOIL.COM](http://WWW.MOSESHYDROFOIL.COM)

A horizontal bar representing the Italian flag, with green, white, and red sections.

MADE IN ITALY



# HYDROFOIL COLLECTION 2016

Moses Hydrofoils

is a brand of SAB Heli Division s.r.l.

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2016.



Moses Hydrofoil designs, develops and produces high quality carbon fiber hydrofoils for kitesurf since 2008. All our gears is completely made in Italy.

Everything started from our passion for kitesurf. That is the key of our success: we never want to stop riding. Hydrofoils are the solution that allows to ride with extremely low wind without any loss of fun.

Our experience leads us to produce a complete selection of hydrofoil: from the beginners to the top racers. Every foil is created with extreme care in order to have the best performance.

## **Summary**

4 - Silente

6 - Vorace Free Ride

8 – Vorace Competition

10 - Foil Board

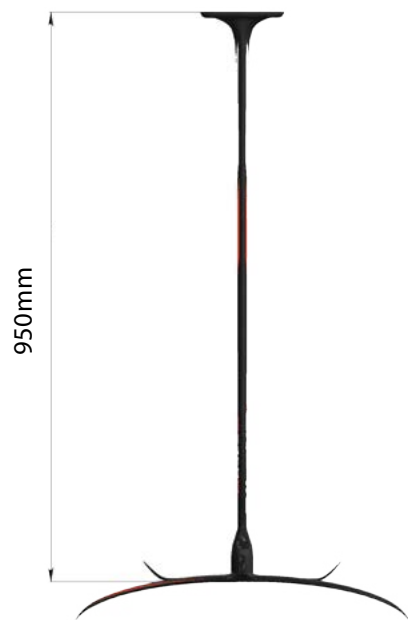
12 - Accessories

# SILENTE

## THE FREE RIDE HYDROFOIL

Moses hydrofoil produces the Silente since its foundation. Our experience leads us to realize a great hydrofoil. Anyone who tries a Silente hydrofoil can immediately understand that they are using a strong hydrofoil, affordable and durable, but at the same time easy to ride and very stable even at high speed.

For those features the Silente hydrofoil is the perfect choice for free riding.



MKS950RS

Little details improve the new Silente mast.

The new plate allows to mount the hydrofoil to every board. Its larger dimensions make the Silente stronger and more stiff.

Improvements were done even in the internal structure. New stainless steel insert was designed in order to have safer wing joint and more resistant to corrosion.

All wings for Silente are compatible with the new mast.

#### **Silente Mast [MS950RG]**

This new wing is the result of our experience and our analysis on airfoils. The airfoil makes the Silente to lift at extreme low speed; the curved shape offers great stability and high maneuverability. The wings make possible to reach 26 knots. Riding a Silente has never been so easy and so fast.

It is possible to mount this wing on all the Silente masts.

#### **High Performance Front Wing 560mm Silente [MHP560SRG]**



This stabilizer was designed with the aim of a perfect match with the High Performance Front Wing 560mm. It makes the Silente stable in pitch and yaw thanks to its winglets and thanks to its airfoil.

It is possible to mount the Stabilizer 330 on all the Silente masts.

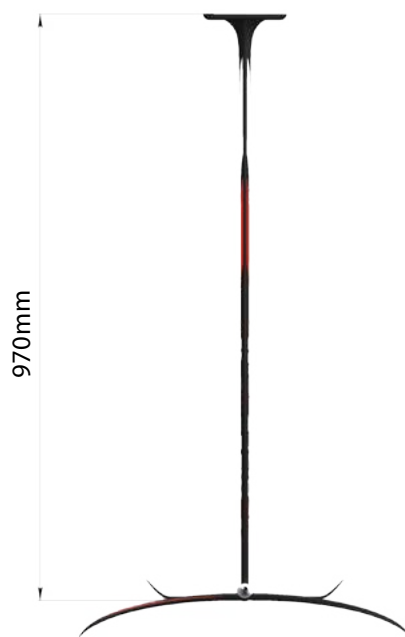
#### **Stabilizer 330mm Silente [MST330SG]**

## FREE RACE

The natural inclination of hydrofoil races has encouraged us to improve the Vorace project.

Our aim is to make a foil for riders' needs: speed, stability and stiffness.

The Vorace Free Race is the perfect choice for all the riders that want to have a compact hydrofoil, very stable, fast and easy to control.



MKV970RM

#### Main Features of the Vorace Mast:

- Extremely thin profile, specifically studied and tested to reduce the hydrodynamic drag
- Variable profile through a high mast for better torsional strength
- High modulus carbon fiber for maximum stiffness
- Conic insert for fuselage connection that prevents vibration and play
- 970mm for better performance in upwind condition
- Plate joint 90x165 center-to-center distance.

#### Vorace Mast [MV970RM]

The high performance front wing 560mm mounted on the Vorace allows you to easily reach 30 knots with extreme stability and maneuverability. The hydrodynamic efficiency is at high levels thanks to an airfoil specifically studied and designed for hydrofoil purpose.

The carbon fiber construction gives to those wings great rigidity and great strength.

This wing can be assembled on the Vorace Mast [MV970RM] and on the Vorace Fuselage [MVF680]

#### High performance front wing 560mm Vorace

##### [MHP560VRM]

Span: 560mm

Root Chord: 120mm

Maximum airfoil thickness: 12mm

Aspect ratio: 6,3



The fuselage is the element that connect the wings to the mast. We realized our fuselage for Vorace in a particular aluminum alloy deeply anodized: this alloy allows to keep the weight low, make the part strong and rigid and to prevent corrosion due to sea water.

The solution is extremely thin for the minimum drag.

#### Vorace Fuselage [MVF680]

After a deep optimization process we obtained the Stabilizer 330 for Vorace. This solution match perfectly the HP560 front wing for the Vorace and gives the exact pitch and yaw stability for a fast but easy ride.

This stabilizer can be assembled on the Vorace Mast [MV970RM] and on the Vorace Fuselage [MVF680]

#### Stabilizer 330 Vorace

##### [MST330VM]

Span: 330mm

Root Chord: 80mm

Maximum airfoil thickness: 8 mm

Aspect ratio: 4,3



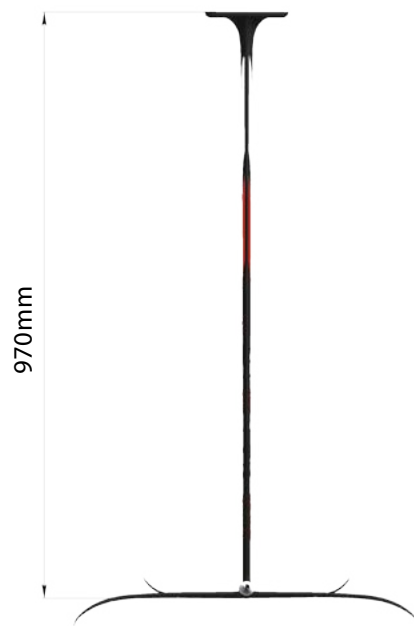
# VORACE

## COMPETITION

We proudly present the Vorace Competition

Our aim is to make the Moses foil for races. Maximum performance in both upwind and downwind condition, great stability and top stiffness. We reached this aim by mixing our experience, fluid dynamic analysis of engineers and tests of our riders.

The Vorace Competition is the hydrofoil that all of our athletes use in nationals and internationals competitions.



MKV971RM



The High Performance Front Wing 580mm for the Vorace hydrofoil was developed with only one purpose: racing for racers.

The High Performance Front Wing 580mm has the thinnest profile that we ever done. This profile should reduce of 10% drag in comparison to the free race wing. Higher aspect ratio improves hydrodynamic efficiency, decreasing drag without losing lift.

The top speed of the Vorace Hydrofoil is improved; the upwind performance are impressive. Strength and stiffness of the wings are reached with High Modulus Carbon fiber.

This wing can be assembled on the Vorace Mast [MV970RM] and on the Vorace Fuselage [MVF680]

#### **High Performance Front Wing 580mm Vorace Red Matte [MHP580VRM]**

Span: 580mm

Root Chord: 100mm

Maximum airfoil thickness: 9 mm

Aspect ratio: 7,2



The Stabilizer 345mm for Vorace is designed to give the perfect pitch and yaw stability to the hydrofoil with the HP580 Front Wing.

The hydrodynamic efficiency is at high levels thanks to an airfoil specifically studied and designed for hydrofoil purpose.

The carbon fiber construction gives to those wings great rigidity and great strength.

This Stabilizer can be assembled on the Vorace Mast [MV970RM] and on the Vorace Fuselage [MVF680]

#### **Stabilizer 345 Vorace Matte [MST345VM]**

Span: 345 mm

Root Chord: 70mm

Maximum airfoil thickness: 6.3mm

Aspect ratio: 6.9

# T40 BOARD

## THE FREE RIDE FOIL BOARD



**MT40GRM**  
T40 Board Fiber Glass

The concept that leads to the design of this board is to have a solution for all of our hydrofoil. The dimensions are thought to help when you are starting riding. The stance is chosen to have the right stability and great controllability of the hydrofoil.

Two versions are available: the white fiberglass T40 Board and the dark carbon fiber T40 board.

**4' 8"**

142 x 48,5 cm

23 L

3,3 kg (footstrap excluded)

40mm thickness

52 – 67 cm stance

### Equipment

Full pad

Moses footstraps

Hydrofoil plate joint screws



**MT40CRM**  
T40 Board Carbon Fiber

# VORACE BOARD

## RACE BOARD

**4' 10"**

145 x 45 cm

32 L

2,8 kg (footstrap excluded)

70mm thickness

52 – 67 cm stance

This board completes our gear for races: the Vorace board is designed and developed in an exclusive way.

The board fits perfectly our Vorace race foil, and it has all the features that athletes are looking for owns in competitions.

### Equipment

Moses footstraps

Hydrofoil plate joint screws



**MT70CRM**  
Vorace Board



# ACCESSORIES



**MA006**  
Moses Silente Bag



**MA005**  
Moses Board Bag



**MA001**  
Moses Footstraps



**MA010**  
Moses T-Shirt  
(Size: S-M-L-XL-XXL)



**MA015**  
Moses Cap



# HARDWARE



**MHW030**  
Moses Plate Adaptor



**MHW002**  
Bushing M6x10

**MHW010** Flat Head Screws M6x16

**MHW014** Flat Head Screws M6x20

**MHW015** Flat Head Screws M6x25

**MHW018** Button Head Screws M6x50

**MHW025** Self-tapping Screws M5x25

**MHW025** Washers Ø8 x Ø16 x 1,4













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