



**RDC AQUALINES**

Aeromarine Transport Consortium

N.Novgorod, 603002, Sovetskaya str., 12; t/f.: (831) 277-62-28, 277-62-29; aqualines@rdcnn.ru  
www.rdc-aqualines.com

---

## SUMMARY

### On the product development, manufacturing and operation of the WIG-bike craft



#### The product essence:

The watersports and leisure ground-effect craft that provides a unique experience – gliding over the water using the wing-in-ground-effect on the speed up to 110 kmh. The fully electric propulsion powers the craft. The big square of the craft with the additional equipment (the foldable sunshade and table, luggage compartment) makes it the fully autonomous platform for transport and beach activities (sunbathing, diving, fishing, etc.)

#### Main technical characteristics:

Capacity	2 persons with max speed / 3 persons with speed reduction app. 15%;
Max speed	110 kmh;
Range	100 km;
Seakeeping in cruising mode, $h_{w3\%}$	0,3 meters;
Seakeeping in displacement mode, $h_{w3\%}$	1 meter;
Max displacement	980 kg
Dimensions, length/width/height	9,3/3,6/1,9 meters

## Propulsion system

### *Electric engine*

EMRAX 228 (MV) x 2

Outrunner

42 Kw

12,3 kg



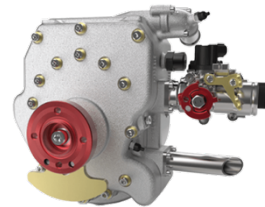
### *Combustion-engine alternative (if required)*

AIE 225CS – 40 BHP x 2

Gasoline

30 Kw

10 kg



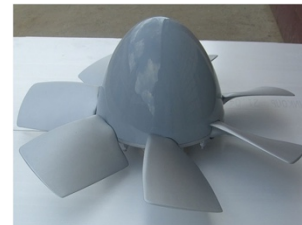
### *Propeller*

Axial-flow fanOB-640-7x 2

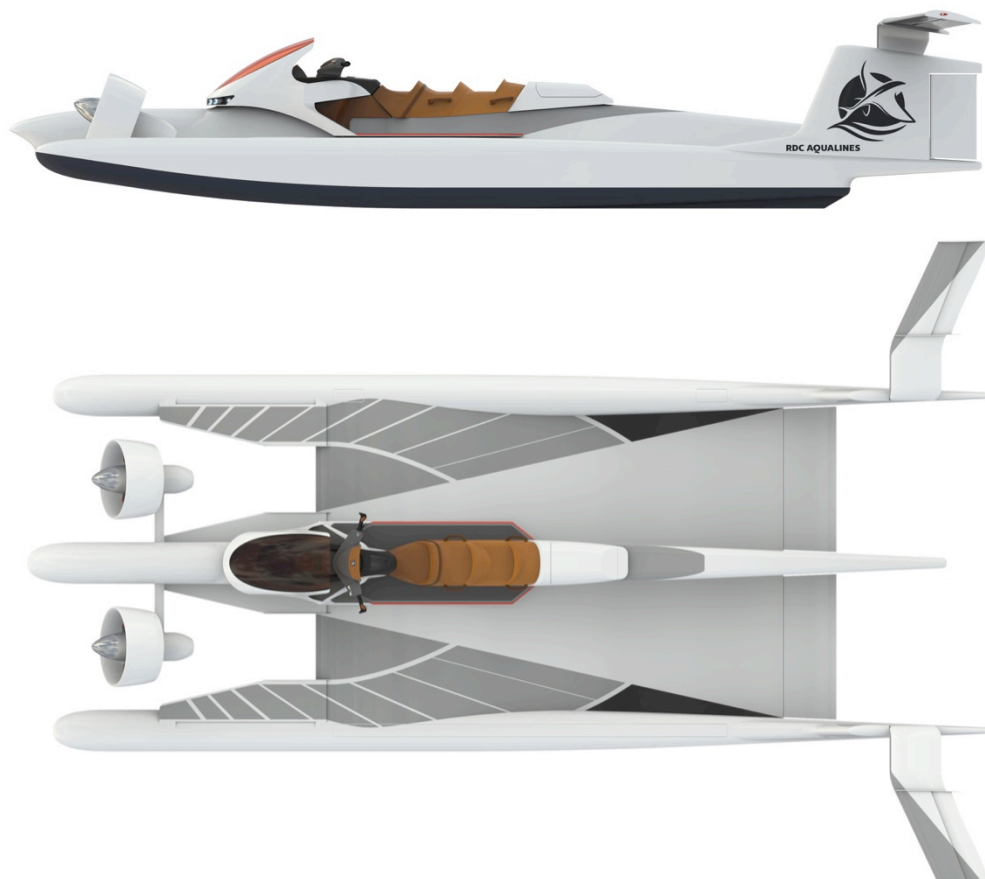
Ø 640 mm

7 blades

RPM 3600



## Design offer

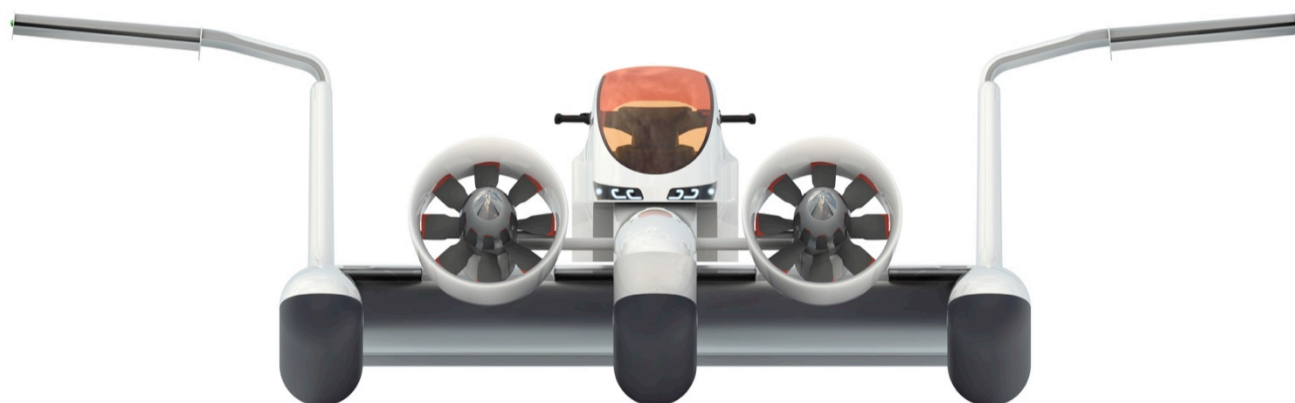


The product is to be proposed for the private usage in the segment of water sports and leisure craft as well as the entertainment craft offered for rental in the touristic areas. The prospective area of operation is the warm regions with the attractive beach spots.

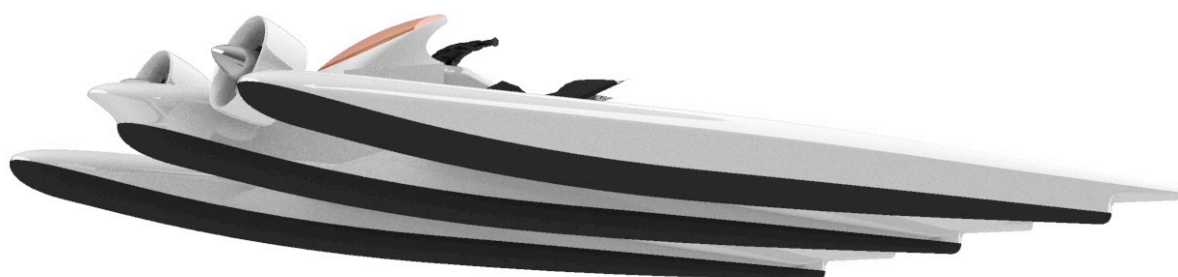


**The competitive advantages** (in comparison with the regular rigid-gliding-hull aquabike):

1. Unique ground-effect cruising experience. The air-feeding propulsion design generates dynamic air cushion under the craft what provides "flying feeling" since the beginning of the movement. In this mode, the craft is supported by the propulsive flow of air under the wing, so the craft is almost hovering over the water.



2. The craft design solution includes shock-absorbing balloon tyres under the wing collars and the centerplane. This gear provides more comfort during cruising on the wavy water. Moreover, the combination of the balloon tyres and air-feeding propulsion provides the amphibiousness of the craft (ability to move to the flat shore without any infrastructure required).





3. The big flat surface of the quadrangular-shaped wing provides a usable square of 20 m<sup>2</sup> what turns the craft into the multifunctional float board. The construction of the craft may include foldable sunshade, picnic table and waterproof luggage compartment. These features make the craft applicable for:

Sunbathing & picnic

Fishing

Diving.

