



# *SUPERIOR HULLS INC.*



## *Flexible Power-Fins Technology*

The Flexible Power-FINS technology will reduce the resistances of the hull through movement in water which results with significantly improved performance and improved operating efficiency.

Amnon M. Cohen as the inventor of the Power FINS is a former marine engineer and a naval officer.

### **The invention**

The invention is based on a yet new original concept and resulted with a discovery innovated into futuristic new hull design including this add-on Flexible Power-FINS technology suitable for all existing watercrafts, vessels and ships.

Over many years and in private secrecy, the simplified “flexible power-fins” product line was innovated, a patent application filed but not published in the USA PTO.

The company is seeking to implement this initiative because we know the vast value of this technologic advantage for the Global Maritime Industry and its future impact on Maritime-Defense, Merchant Shipping and recreational boating, including racing.

### **Prove of concept -Documented Tests**

The prototypes were tested on 12-foot boat and 21-foot cruiser on open water, plus a Halifax Class Frigate model in a Tow-Tank facility.

Simple quality Video documents were also created, and can be shared.

Following are the documented results of each of the three (3) tests.

The test of the 12 foot boat and 21 foot cruiser demonstrated the following results for **Planning Hulls:**

- Created are 3 new efficient speeds, plus new top speed
- 7% improved top-speed in planning hulls
- Significantly improved ride comfort/shock mitigation and superior turning plus directional piloting capabilities
- Additional Lifting/Loading capability
- As the invention lifts the watercraft on top of the water, resulted is a very stable horizontal platform for targeting the object, reducing the demands on the gyroscopes for direct hit.
- See Attachment- A and B for test results



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The test of Halifax Class Frigate model, demonstrated the following results for **Displacement Hulls:**

- 20.6 % improved powering efficiency as fuel savings and improved speeds
- Significantly Reduced wave making with Improved Acoustic Silencing and Surface Signature Silencing
- Water Lubrication Layer is created under the hull, with a created (flexible) cavity permitting additional lubrication layer option
- See Attachment-C for test results

## **Aims & Objectives**

Sought is the first Major Client for using the innovated Flexible Power-FINS for defense application on small boats and on large vessels.

The initial objective is conducting A Demonstration on a given vessel, and the following objective is the first Commercial Use of the products'-line by the Major Client with optional partnership for further marketing and sales.

## **Suggested Method**

As this is yet a new original technology, we like suggest for the client to select a suitable boat they choose, to which we shall design the proper fins for the initial demonstration of the commercial capabilities the products'-line adds to any existing watercraft; and following, we shall like the opportunity to develop for installation and use of the proper set of fins to any given class of fighting vessels.

Submitted by inventor

Amnon M Cohen  
President of "Superior Hulls inc."