

AERO MARINE RESEARCH OF FORT LAUDERDALE, FLORIDA, is a new name but the Principals and Naval Architect –including all welders, fabricators, technicians are the same people that were USA Avenger, Inc. Avenger designed and built the all aluminum R.I.B. type combat and patrol craft and foil assisted catamarans under a new name and new location Aero Marine now introduces its latest tech-development in performance products.

### 22' Solar Aluminum Catamaran , “The Booster Planes” and 7G Suspension Chair



A new 22'-0" Aluminum Catamaran – Tender-Port Security-Sports Boat is completed, its solar powered(4) four panels total 1 kw with (2) torquedo 4.0 electric motors at 9.5 hp each, anticipated speed 14 knots.



The booster planes are a high lift/drag ratio apparatus that we can bolt on – weld on the bottom of the hull or locate them on the transom. The dimensions will vary according to shape speed of the hull. The booster planes are based on hydrofoil technology. Our company built the very first commercial aluminum hydrofoil catamaran passenger ferry, December 1989; for the City of Alameda –for 149 passengers in the U.S. certified by USCG, the plans are ABS approved. It was delivered in March 1991. Additional passenger catamarans with foils followed that vessel. The Booster Planes were not contemplated at this early development stage. Installation of a pair of trim plane boosters is recommended for a complete system – for a predicted 10% - 13% increase in performance. This technology is applicable to all high speed craft with a cruising speed of 20+ knots. That means good fuel savings, all this for a relatively nominal cost.

It will be difficult to rationalize not installing the boosters.

The boosters overcome the reluctance to hydrofoils but do not match the increase in performance which can be 30 to 40 percent.

The 7G Military derived suspension chair was in the development stage for over one year. The chair has an aluminum pipe frame, deep cushions, a 4-point safety harness and stowage space for a back pack below the seat platform. Weight of the chair – 40lbs Footprint 24” x 24”. You sit in the chair -- not on it. The chair has (2) mitigating shock absorption system –one beneath the seat platform the other at the end of each leg is designed for crew boat passengers and all offshore-heavy weather craft.



Aero Marine is located inside a very modern and new facility, the Lauderdale Marine Center; we are capable of hauling a 300 ton – 165’-0” vessel and store it in our undercover facilities. We have a full machine and fabrication shop. The bolt on boosters or hydrofoils are made to fit mostly semi-planing and planing hulls starting from 25’-0” and upwards to 200’-0”.

Give us a call and we will get you going faster on less fuel without doing any engine modifications.

Telephone: 954-769-9190  
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