

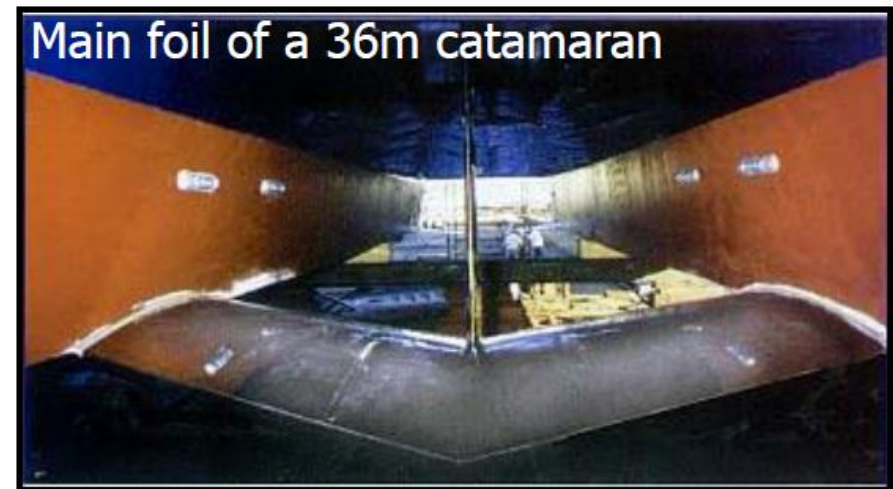
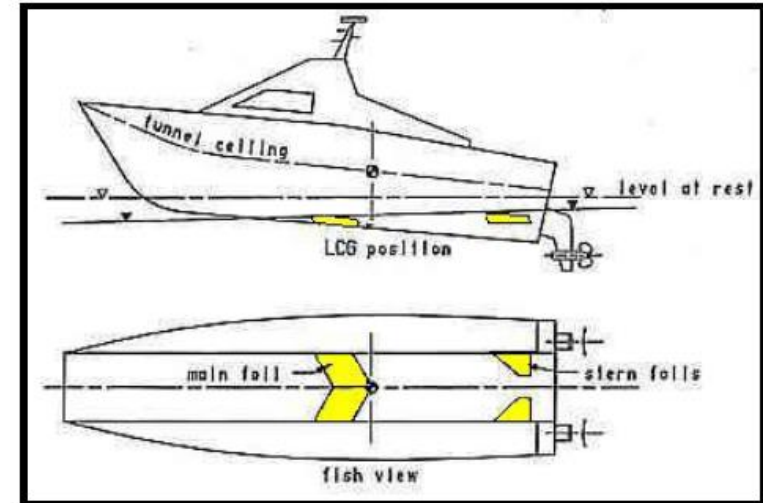
HYDROFOIL SUPPORTED CATAMARAN



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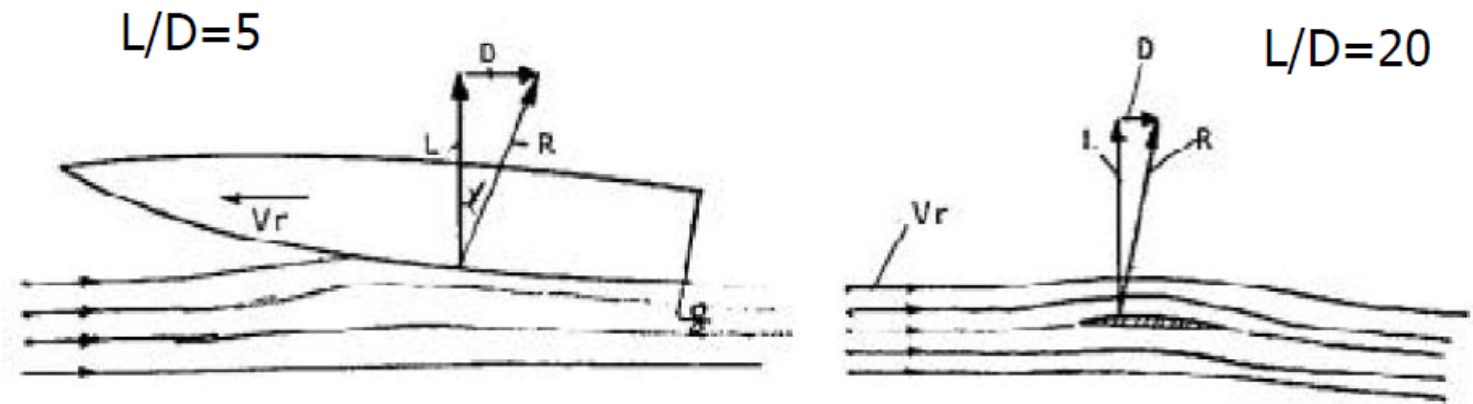
HYDROFOIL SUPPORTED CATAMARAN - DEVELOPMENT

- ▶ Hydrofoil system designed for planing catamarans carries up to 70% of weight
 - Increased Speed (40%)
 - Improved Seakeeping
 - Improved maneuverability
 - Reduced fuel consumption (30%)
- ▶ Applications (300+ craft):
 - Patrol craft
 - Pleasure craft
 - Passenger ferries



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HYDROFOIL SUPPORTED CATAMARAN - PRINCIPLE

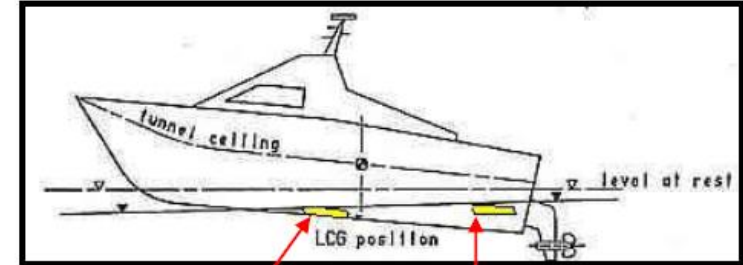


- ▶ **Lift to drag ratio of hydrofoils 4 times better than planing hulls**
- ▶ **Hydrofoil are self-stabilizing due to "Free-surface Effect"**
 - Free surface effect prevents hydrofoil from "popping out" of water at high speeds
 - Fixed foil system has automatic stabilization effect



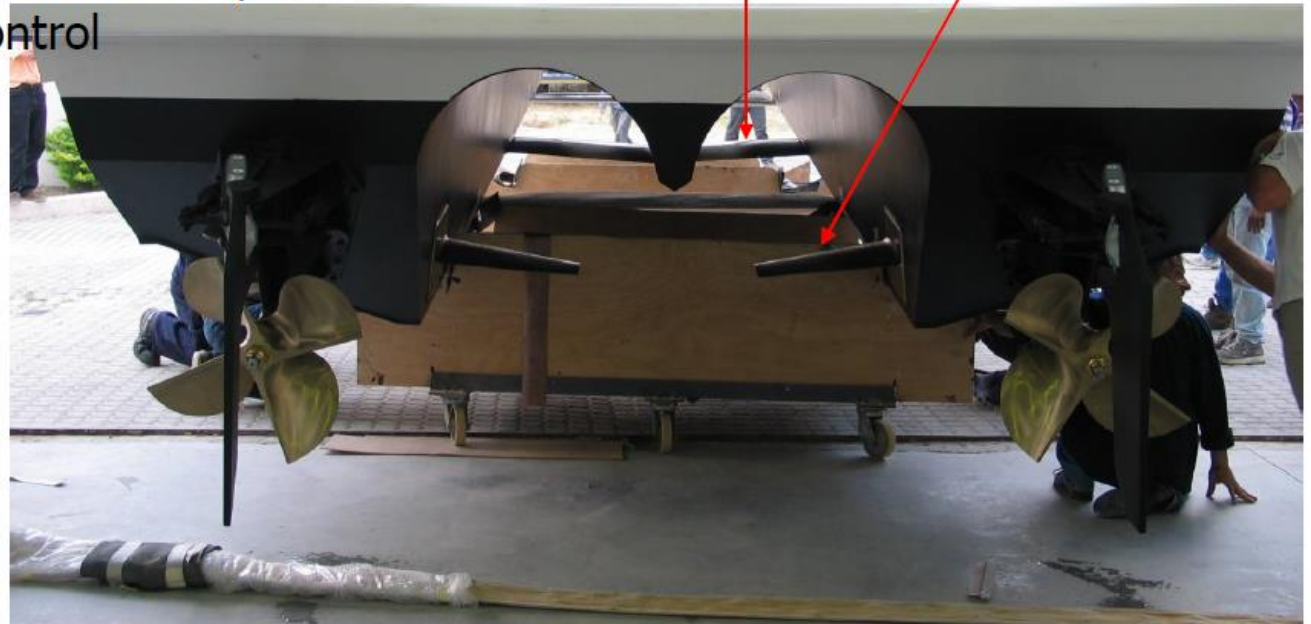
HYDROFOIL SUPPORTED CATAMARAN – FOIL POSITION

- Main Foil located at keel depth for maximum efficiency and **no increase in draft**
- Trim Foil located above keel depth for maximum trim control



Main foil at keel Depth

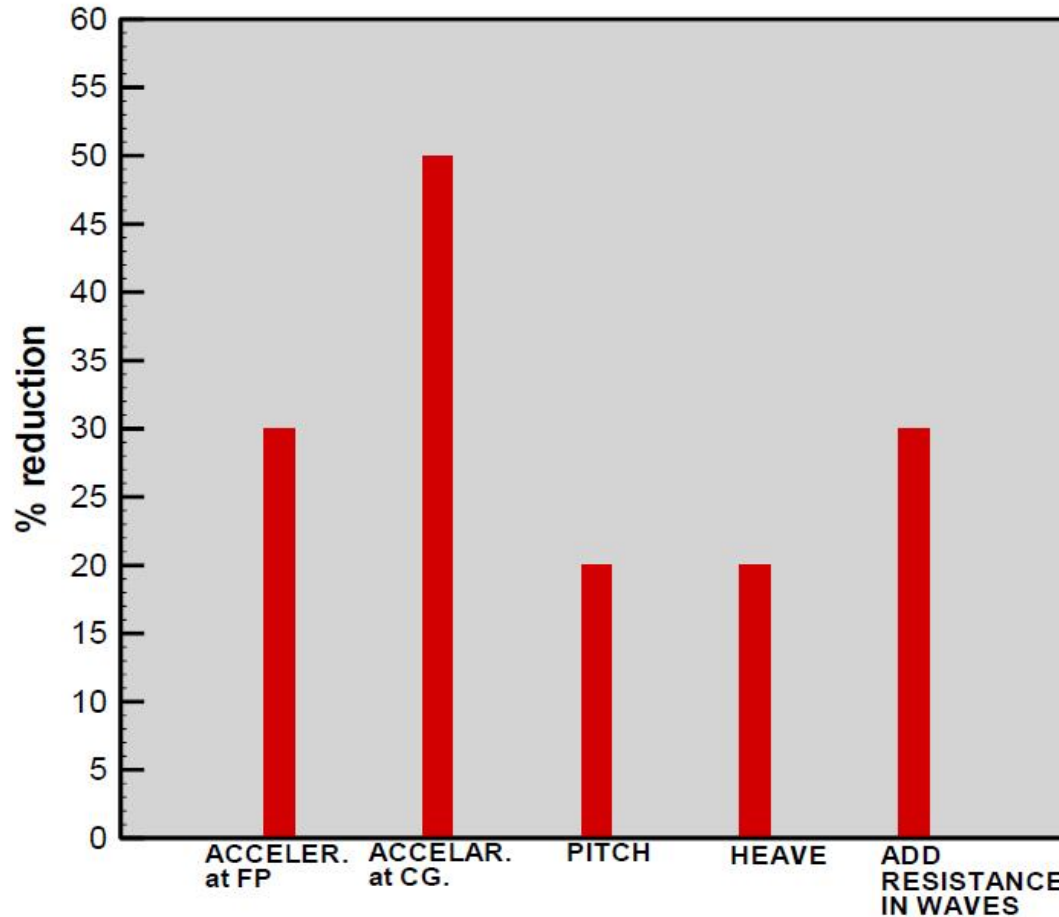
Rear Foil above keel



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HYDROFOIL SUPPORTED CATAMARAN – SEAKEEPING

compared to standard catamaran



- Reduced operator fatigue
- Higher structural integrity
- Higher speeds
- Lower operating costs



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HYDROFOIL SUPPORTED CATAMARAN – STRIKE

- ▶ Foil Designed to withstand strikes without damage.
- ▶ Any object that will not damage boat will also not damage foil:
 - Logs
 - Oil drums
- ▶ Foils are protected inside the tunnel
- ▶ Fail Safe system- if the foil hits a solid object bolts will shear, leaving the hull intact.



11m HYSUCAT hit rocks at 30 knots.
No damage to foils!! Vessel went back into service the next day.



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HYDROFOIL SUPPORTED CATAMARAN – DESIGN

- ▶ Stainless Steel or Titanium Construction
- ▶ Low Maintenance
- ▶ Adjustable (optional)
- ▶ Class Approved (optional)



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HYDROFOIL SUPPORTED CATAMARAN – BENEFITS

01.	HYDROFOIL SUPPORTED CATAMARANS GIVE LESS DRAG ON THE WATER
02.	HYDROFOIL SUPPORTED CATAMARANS DO NOT AFFECT THE DRAFT
03.	HYDROFOIL SUPPORTED CATAMARANS HAVE LOW CAVITATION
04.	HYDROFOIL SUPPORTED CATAMARANS HAVE BETTER PASSENGER COMFORT
05.	HYDROFOIL SUPPORTED CATAMARANS GIVE BETTER SPEED
06.	HYDROFOIL SUPPORTED CATAMARANS HAVE LESS FUEL CONSUMPTION
07.	HYDROFOIL SUPPORTED CATAMARANS GIVE MORE RANGE
08.	HYDROFOIL SUPPORTED CATAMARANS CAN OPERATE IN MUCH ROUGHER WATERS
09.	HYDROFOIL SUPPORTED CATAMARANS ALLOW A SMALLER TURNING CIRCLE
10.	HYDROFOIL SUPPORTED CATAMARANS GIVE LESS SPEED LOSS IN ROUGHER WATERS
11.	HYDROFOIL SUPPORTED CATAMARANS GIVE LOWER WAKE
12.	HYDROFOIL SUPPORTED CATAMARANS OFFER LESS FATIGUE TO PASSENGERS & CREW



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