



PROTEUS

A NEW CLASS OF WATERCRAFT CUSTOMIZED TO
YOUR SPECIFIC EXPEDITION NEEDS



Proteus is the first of a new generation of Wave Adaptive Modular Vessels (WAM-V™) based on patented technology that brings you a radically new seagoing experience. Developed by Marine Advanced Research, Inc., these ultra light, unbelievably flexible catamarans are modularly designed to allow for a variety of applications and to fit the requirements of your specific expeditions – rescue missions, sea explorations, or the occasional star-studded event.

With the WAM-V, you get the smoothest, fastest ride possible thanks to breakthrough seagoing technology.

Unlike conventional boats that force the water to conform to their hull, a WAM-V adjusts to the surface of the water. A superstructure is flexibly connected to specially designed pontoons by several components that actually move in relation to one another. Springs, shock absorbers and ball joint support the vessel and minimize stresses to structure, payload and crew. Two engine pods, containing the propulsion and ancillary systems, are fastened to the hulls with special hinges that keep the propellers in the water at all times.

The WAM-V fits better than a tux or gown. The WAM-V can be built in different lengths to match your specific applications, and can be custom designed and built for easy disassembly so that all parts can fit into standard containers.

The modularity of a WAM-V allows you to switch

payloads in less than an hour. In most versions, the payload is a self-contained craft that can lower to the surface, detach and operate under its own power.

The engine pods are mechanically separate from the main hulls and can be swapped out to ones with a different propulsion system. Alternatively, two sets of identical engine pods keep the vessel operational at all times, when engines have to be serviced or repaired.

The WAM-V has ocean-crossing capabilities with a range of up to 5,000 miles. Very low fuel consumption, low draft, small wake (even at high speed) and soft hulls make the WAM-V technology easy on the environment, easy on the bank account, and easy on the ride.

Prototype Characteristics

Invention and original design:	Ugo Conti, Ph.D., D. Eng.
Prototype Development:	Ugo Conti and Mark Gundersen
Design software:	Autodesk® Inventor Professional
Displacement:	12 tons full load. - with 2,000 gals of fuel aboard, Proteus has ocean crossings capabilities.
Dimensions:	Length: 100 feet. Beam: 50 feet. The low length/beam ratio results in stability and safety.
Draft:	Eight in forward and 16 in aft at half load. Her limited draft and inflatable hulls contribute to her maneuverability. Proteus can be beached without damage, delivering cargo or personnel.
Power plant:	Two Quantum Series QSB5.9 355 MPH by Cummins MerCruiser Diesel; Two TwinDisc MG-5061A marine gears with Arneson ASD-8 surface drives.
Complement:	A crew of two can man this large vessel and has piloted Proteus over a thousand miles of ocean.
Payload:	4000 lb. - Proteus' payload is a boat with berthing for four and independent propulsion.
Materials and Components:	Titanium, aluminum and reinforced fabrics. The titanium springs produced by TIMET and the structural inflatable hulls produced by Wing Inflatables ensure inherent flexibility that provides shock mitigation for crew and payload.
Advanced Design and Modeling:	High-speed HP workstations combine speed and memory to take full advantage of the advanced features of design software – which has proven valuable in design modifications to Proteus. Future designs will be more efficient and shorter in duration thanks to HP technology.
Sea Trials:	Cruising speed: 18 to 20 knots. Maximum speed: 30 knots. For more info: Visit www.wam-v.com

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