



APAC AMPHIBIOUS

www.apacsurveillance.com



Ship-To-**Shore** Deployments reimaged
'NERO FRONTIER'

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Bringing together highly innovative teams, APAC Amphibious delivers tactical beach landing solutions designed for marine and naval operations. We can offer different livery as seen below.







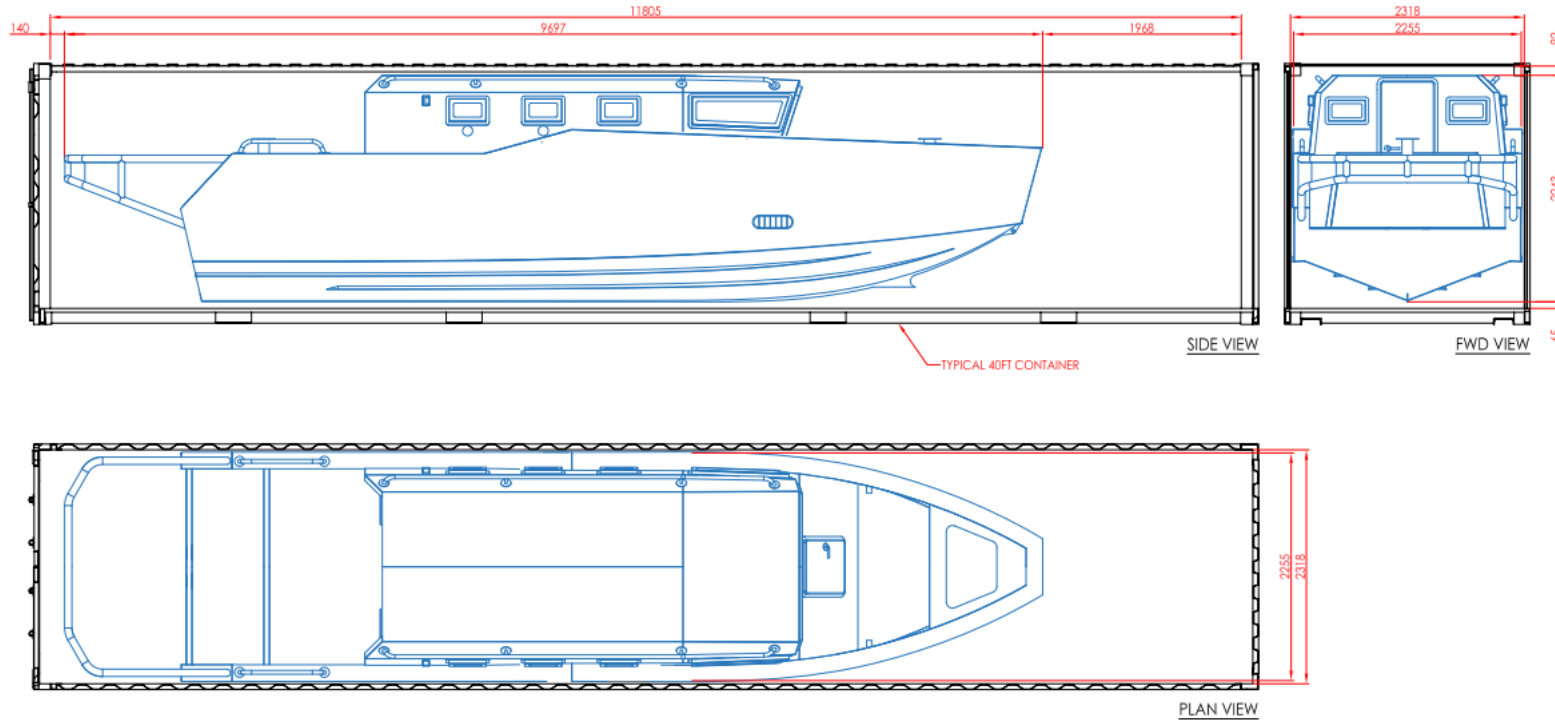
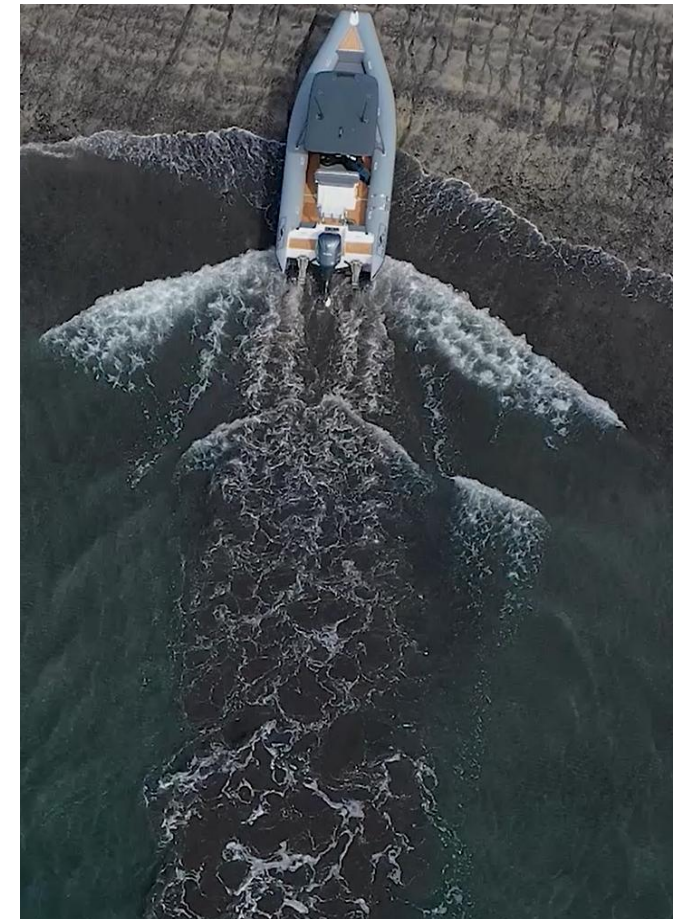
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PARTICULARS	
Hull	HDPE, Planing
Wheelhouse	n.a
Length	9.50 m
Beam	2.49 m
Displacement (Max)	4400 Kg (full load)
Draft	0.50 m
Classification	Grey Boat Code
PERFORMANCE	
Max Speed	45-50 knots
Cruise Speed	28 knots
Range	127 nm @ 28 knots
PROPULSION	
Engines	Mercury 4 Stroke
Propulsion	Outboard Engine
Power	2 x 300 bhp
CAPACITIES	
Fuel	360 L
Fresh Water	0 L
Waste Water	0 L
Complement	12 Person
ELECTRICAL	
Power Supply	12V DC (2x200Ah)
Genset	n.a
Air Conditioning	n.a
NAVIGATION	
Compass	
Navigation lights	
VHF radio	
Garmin GPS	
OPTIONAL EXTRAS	
Ballistic protection, Suspension seats, Hardpoint mounts	

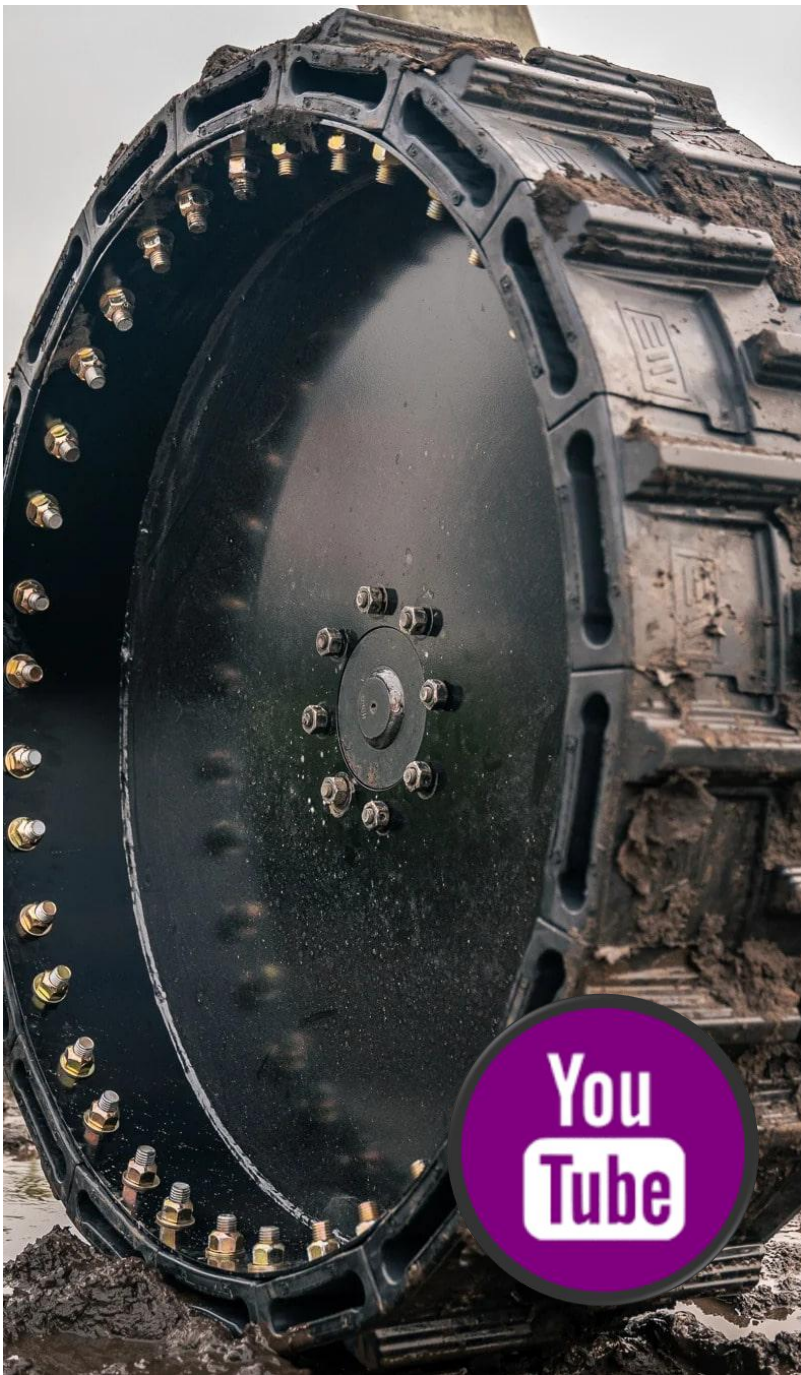
* Specifications subject to change

Modifications / Options: jet engine* ; Solid Wheels**' Livery***

*Hull modifications required ; ** Amphibious systems shock absorption modifications required;
*** Extra price







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APAC Surveillance have teamed up with [Evolution Wheel](#) (Canada) to further secure the operational stability of a deployed force onto a hostile beach environment by being able to replace the pneumatic tyres with solid airless wheel systems during operations.

This one tactical change removes significant risk from a mission.



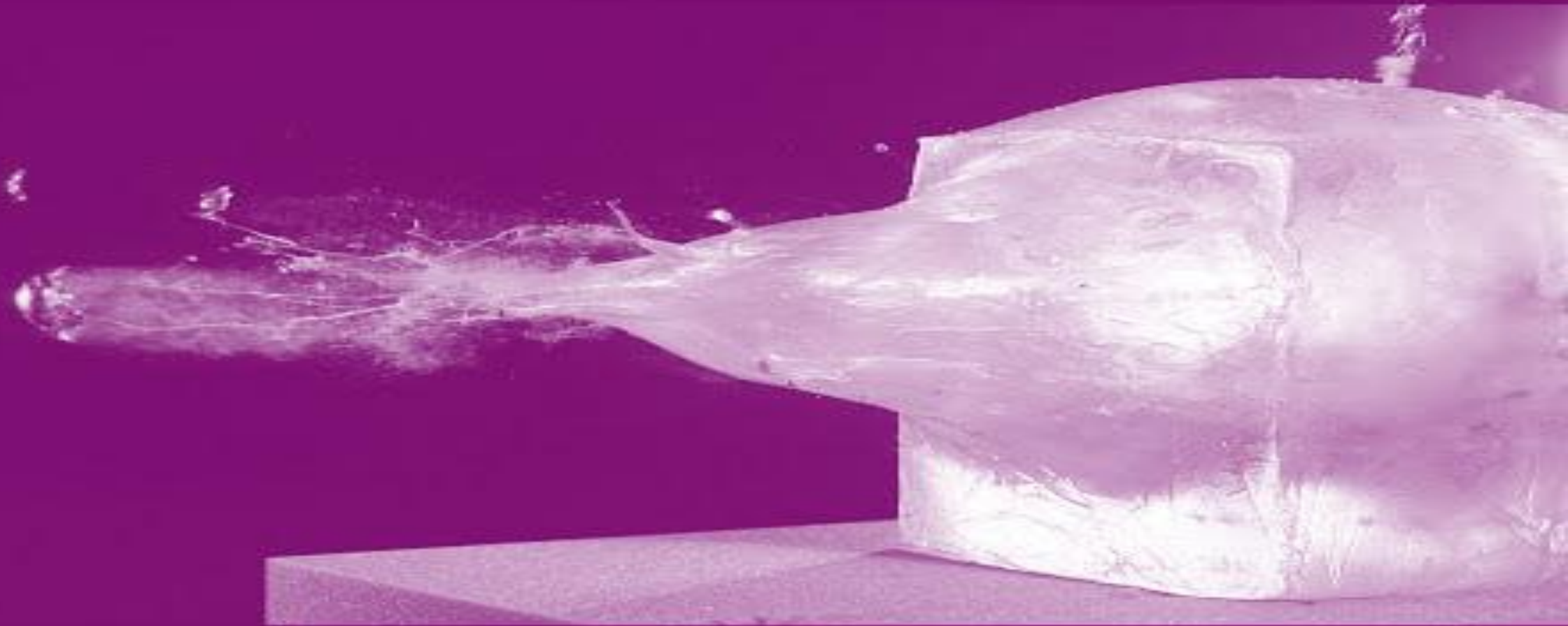








HDPE (HIGH DENSITY POLYETHYLENE) BALLISTIC TESTING



TEST SETUP

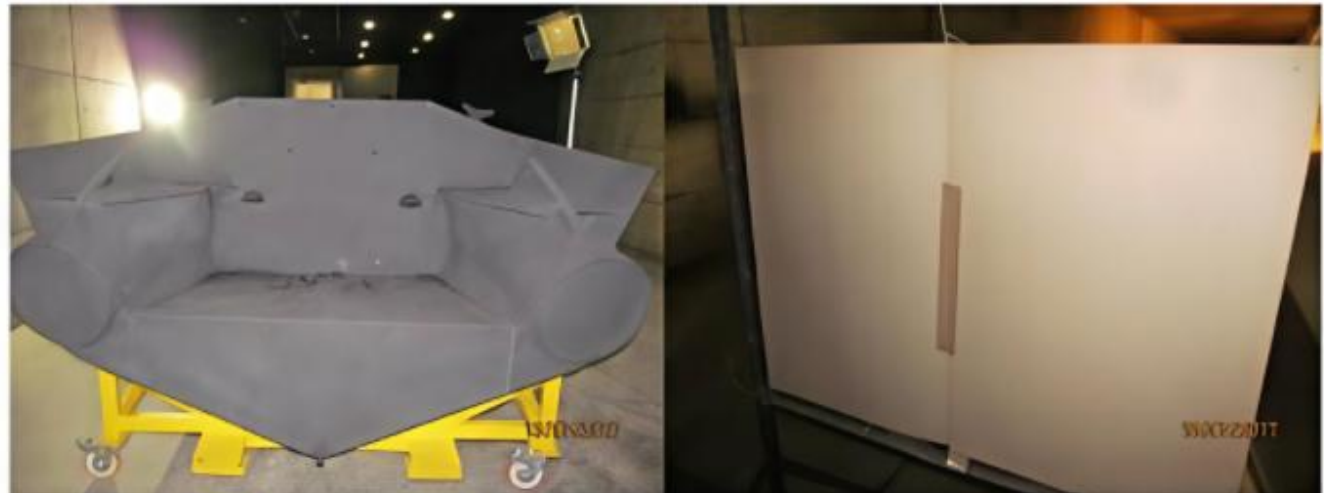
The setup of the test equipment and test targets is presented in this section.

The HDPE Boat Nose piece was positioned perpendicular or at a 45 degree angle to the bullet trajectory at a distance of 15m as in the pictures below with a witness system comprising of 1 x 0,5mm Cardboard spaced 900mm behind the back plate of the nose piece.

Velocities were measured by means of Doppler radar and the Impact velocity was recorded for each shot.

The testing was for rifle threats.

The tests were conducted on 13th and 14th of July 2017.





This test was performed according to the shot configuration and spacing portrayed in the figure below.







Confidential				
Shot no.	Bullet	Impact Angle (°)	Velocity m/s	Result
			V15(Measured)	
1	7,62 x 51mm Ball	0	803	Stop inside gun mount
2	7,62 x 51mm Ball	0	815	CP. Deflected on pontoon. Over witness
3	7,62 x 51mm Ball	0	NR	Stop on Front Flat Gunner Seat Plate
4	7,62 x 51mm Ball	0	808	CP. CP witness.
5	7,62 x 51mm Ball	0	807	CP. CP witness.
6	5,56 x 45mm Ball (SS109)	0	908	Stop in Pontoon.
7	5,56 x 45mm Ball (SS109)	0	896	Stop in Pontoon.
8	5,56 x 45mm Ball (SS109)	0	903	Stop on plate behind weapon mount.
9	5,56 x 45mm Ball (SS109)	0	903	Stop in Pontoon.
10	5,56 x 45mm Ball (SS109)	0	903	Stop in Pontoon.
11	5,56 x 45mm Ball (M193)	0	810	No Count. Bullet impacted sideways.
12	5,56 x 45mm Ball (M193)	0	947	Stop in Pontoon.
13	5,56 x 45mm Ball (M193)	0	946	Stop on Front Flat Gunner Seat Plate
14	5,56 x 45mm Ball (M193)	0	954	Stop in Pontoon.
19	7,62 x 39mm Ball (MSC)	0	719	CP. Hit gun mount and deflected over witness
20	7,62 x 39mm Ball (MSC)	0	716	CP. Hit Pontoon and deflected over witness.
21	7,62 x 39mm Ball (MSC)	0	712	CP. CP Witness.
22	7,62 x 39mm Ball (MSC)	0	718	Stop in front Flat Gunner Seat Plate
23	7,62 x 39mm Ball (MSC)	0	726	CP. CP Witness.

Table 1 Test Target arrangement 1. Results against STANAG 4569 Level1.



Figure 4: Shot 1 Stopped inside Gun mount.



Figure 5: Shot 2 deflected off pontoon over witness.



About our suppliers KND Design – Nautech and Anura



KND Naval Design is South Africa's leading naval architecture practice. Based in Cape Town and founded in 1984, we focus on world class research and development—locally and internationally—and this remains our driving force. KND NAVAL DESIGN uses modern information technology to deliver for corporate, private and government clients. Their end-to-end services help you define and deliver your strategy quickly and predictably, with minimal risk. They take a holistic approach that addresses today's needs and anticipates future requirements. This includes (but is not limited to):

- Assessing client needs and priorities
- Evaluating climate, operating conditions and constraints
- Modelling performance trade-offs (e.g., dynamics vs cost)
- Balancing “nice-to-have” features with practical realities
- Developing innovative, out-of-the-box concepts
- Agreeing written briefs, including performance and cost data
- Applying international regulations (ISO, ABS, SOLAS)
- Deliver preliminary and final design stages programme
- Use state-of-the-art robotics (5-axis CNC)



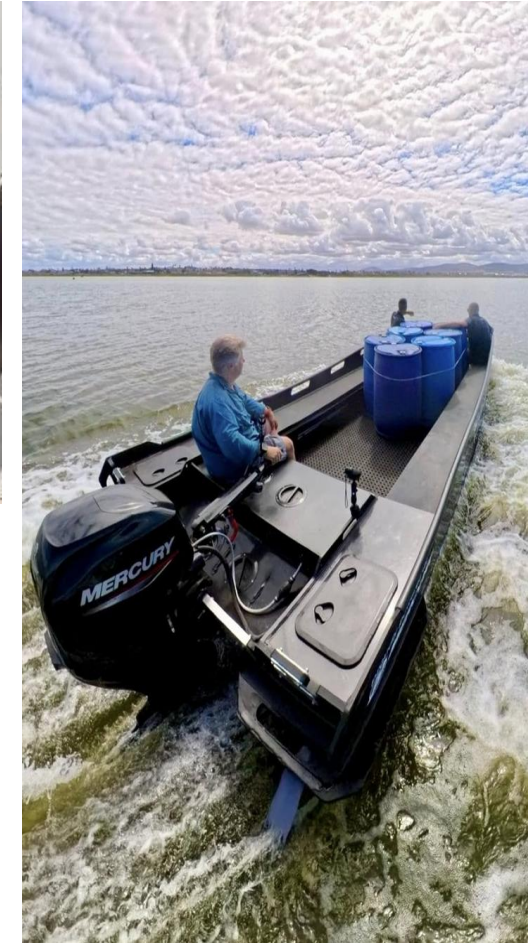


We are pleased to introduce NAUTECH Fabrications & Services to you, based in Cape Town they are an experienced partner for custom marine design, specialized manufacturing, and high-quality HDPE boats.

NAUTECH builds HDPE vessels engineered for strength, impact resistance, and long service life, and every build is driven by real-world performance.

Their designers and engineers work closely with clients to translate requirements into purpose-built solutions, backed by modern tools, proven maritime expertise, and rigorous quality control.

From marine components to complete assemblies, NAUTECH delivers reliable results—fast and consistently. With large-bed CNC router capability, they produce accurate, repeatable parts and complex shapes to support seamless integration from hulls to interior components.





Anura™ was established in 2012 in New Zealand to move amphibious technology forward.

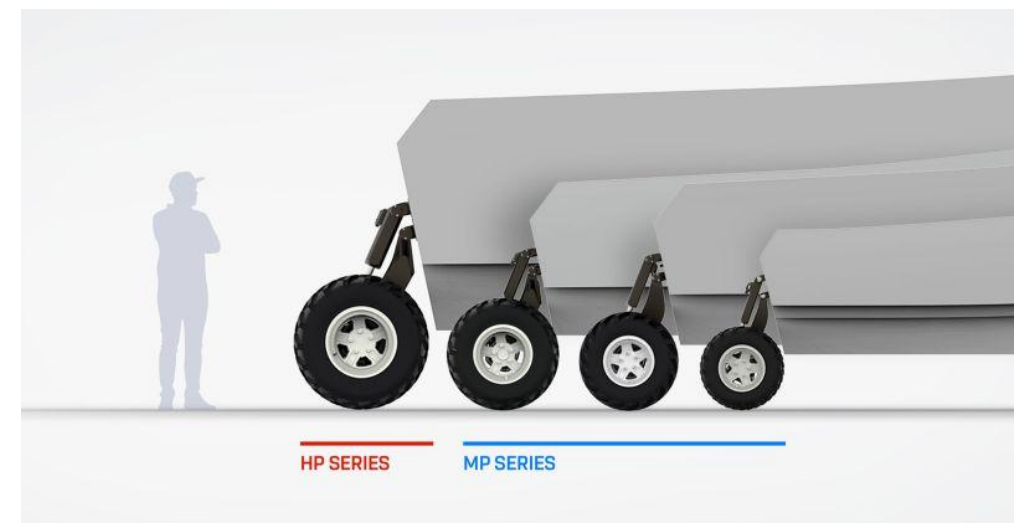
They develop high-performance amphibious tech for local and international marine craft manufacturers. Their team are dedicated and experienced engineers has a sharp focus on functional and practical solutions for the amphibious sector.

Their systems are built to perform. Not only do they offer the best experience for recreational users, but they're also engineered for the demands of commercial and first responder applications.

Their modular systems are designed to work with the wide variety of materials used to construct hulls, this provides craft manufacturers with an unmatched versatile solution.

Anura™ amphibious systems are the next generation choice for marine manufacturers who want to deliver the ultimate amphibious experience to boat owners around the world.

They believe in learning, excellence, integrity and trust.



Our world class supply chain base countries of origin



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