

PROWLER

AUTONOMOUS • AMPHIBIOUS • SEMI-SUBMERSIBLE

MULTI-PAYLOAD USV



FRENZY

SEMI-SUBMERSIBLE MICRO USV



Lurking undetected, just beneath the surface of the sea, a watchful sentinel helps to safeguard our way of life against a rising tide of hostile threats.

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Designed and built by Metal Shark to enhance the effectiveness and lethality of our war fighting forces, Prowler merges autonomous, amphibious, and semi-submersible capabilities with the performance and range of a monohull surface craft.

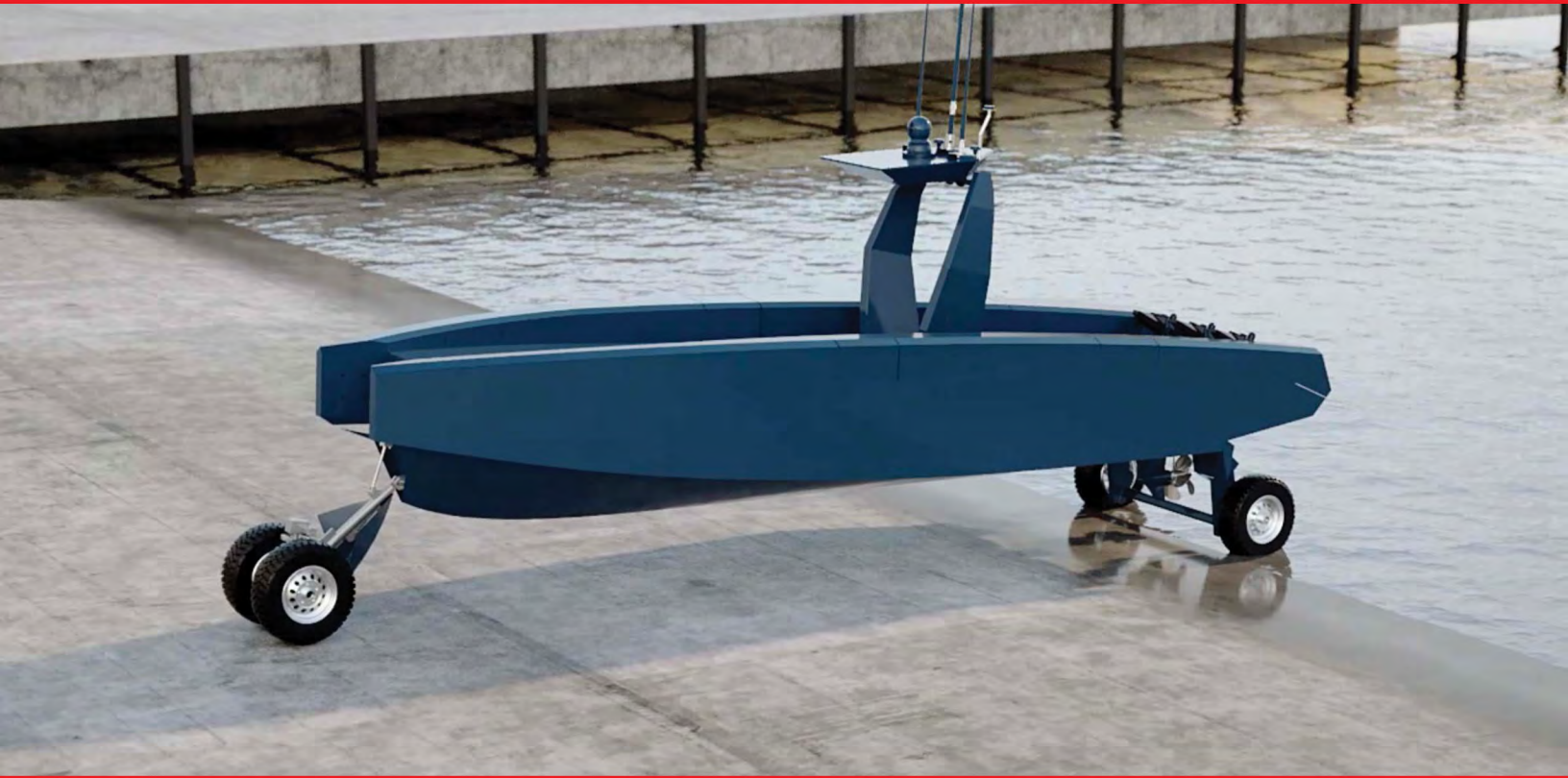
To develop Prowler, Metal Shark leveraged the knowledge and experience gained while delivering over 2,000 welded aluminum response boats, patrol boats, and combatant craft to US and foreign militaries, including over 400-plus autonomous and remote operated surface craft. Combining multiple proven technologies into one vessel utilizing Metal Shark's military-proven Relentless-class hull form, Prowler is a compact, flexible, lower-cost USV solution ready for volume production.



With its deep-vee planing hull, Prowler operates as a conventional surface vessel when underway.

PROWLER - KEY SPECIFICATIONS

LOA	30'
BEAM	8'
FUEL CAPACITY	400 Gallons
DRY WEIGHT	7,500 Lbs
PROPULSION	Single Volvo Penta D6 300HP Inboard Diesel Engine w/ Aquamatic Stern Drive
SPRINT SPEED	35 Knots
RANGE	500 NM
PAYLOAD CAPACITY	1,000 Lbs.
LOITERING ENDURANCE	Up to One Week
ELECTRICAL	Lithium-Ion and Diesel Generator Options
AUTONOMY	Prowler supports a multitude of UMAA-compliant command and control, autonomy, targeting, and AI software packages.



Fully amphibious and capable of autonomous or remote operation on land or at sea, Prowler offers drastically simplified launch and recovery compared to traditional vessels. Prowler is capable of self-launch and self-recovery at boat ramps, without a prime mover or trailer, or from the well deck of an amphibious ship, with no need for cumbersome cradles or dollies. Prowler's low-speed crawl enables autonomous or remote operation on land, allowing vessels to be staged and maneuvered with minimal effort.

Prowler operates on land via a proprietary electric-drive system developed by Metal Shark, which uses low-pressure, high-traction tires mated to dedicated motors for propulsion and steering. Hydraulic rams raise and lower front and rear wheels for operation on land or at sea.



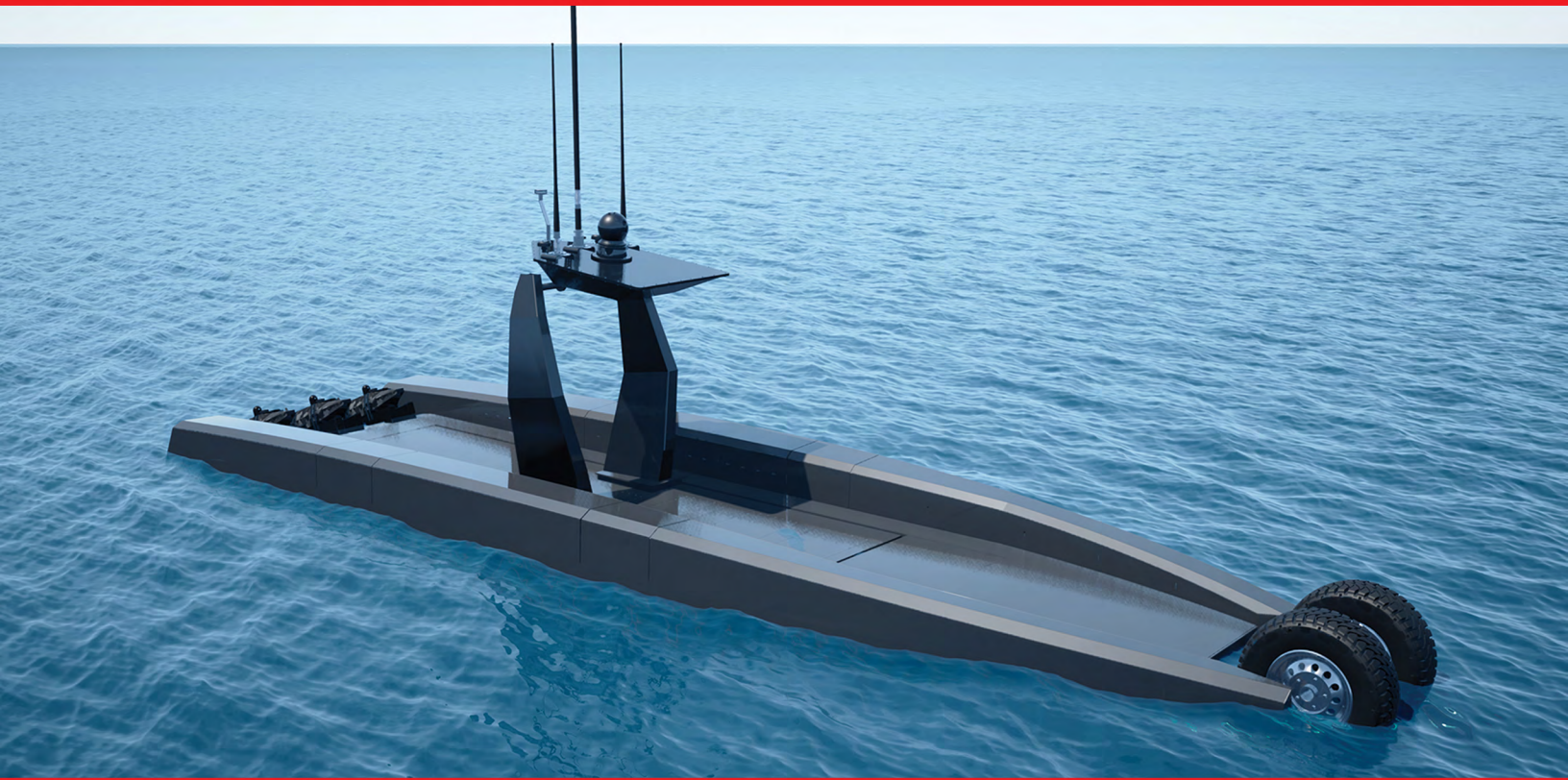
PROWLER - LAND OPERATION

- PROPULSION**.....Proprietary Electro-Hydraulic Drive System w/ 3-Phase Electric Motor
- AXLES**.....Independently-Actuated Hydraulic, Front and Rear w/ 10,000 lb. Rear Torsion Axle
- LAND SPEED**.....3 MPH
- LAUNCH/RECOVERY (RAMP OR WELL-DECK):**
- SELF LAUNCH**.....YES
- SELF RECOVERY**.....YES
- TRANSPORTABLE VIA:**
- OTR**.....YES
- C-130**.....YES
- C-5/C-17**.....YES
- CONTAINER**.....YES
- SELF TRANSPORT**.....YES



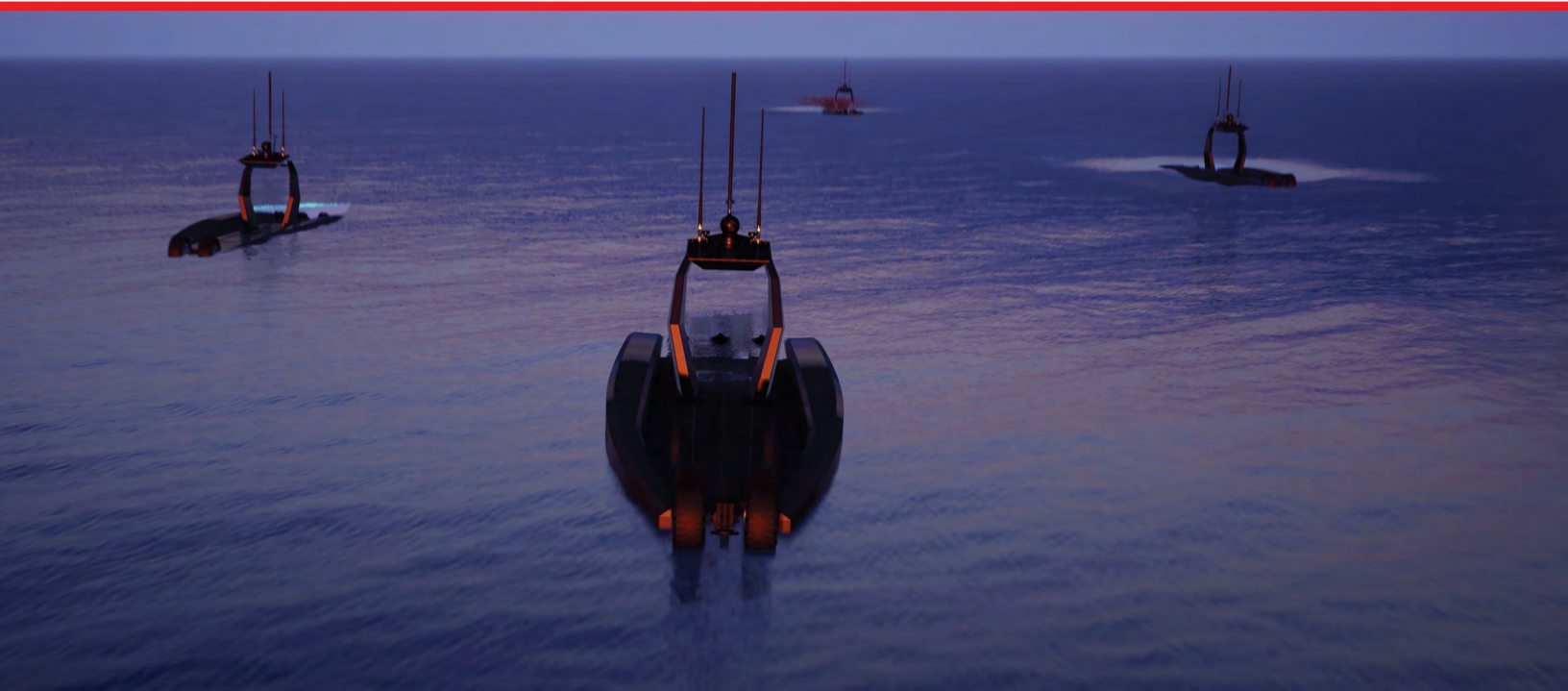
With over-the-road certified tires, marine brakes, and DOT-compliant lighting, Prowler is highway-transportable on its own rear wheels, without a trailer, using a conventional prime mover. This unique feature greatly simplifies transportation logistics, since there is never any concern that the vessel may become separated from its trailer. Prowler is towable at speeds of up to 55 MPH by MTRV or Freightliner.





Designed for extended loitering in a semi-submerged state, Prowler's large, integrated ballast tanks flood when the vessel is static. In loitering mode, Prowler's decks are near the waterline, with only the vessel's arch-style communications mast visible above the water. Semi-submersion reduces Prowler's operational profile while also improving stability for sensors, surveillance and weapons systems.

Prowler's mast carries an array of communications equipment and a situational awareness ensemble for autonomous or remote operation. The mast also serves as the air intake for Prowler's diesel engine. A lithium-ion battery or optional generator power pack supports station keeping, surveillance, guidance, and communications systems during extended loitering periods of up to a week.





Prowler can simultaneously carry multiple payloads, with 1,000 lbs. of total payload carrying capacity. Prowler carries smart loitering drones, which are deployed via arch-mounted launchers, and up to twelve "Frenzy" amphibious micro USVs, which are carried on deck and self-launched on their own wheels via Prowler's stern ramp. Designed and built by Metal Shark, the Frenzy features electric waterjet propulsion, carries a payload of up to 14 lbs., and, like Prowler, can loiter in a semi-submerged state.

Pairing the over-the-horizon capable Prowler with micro-USVs delivers a one-two punch capability, keeping the key asset safe while allowing the attritable drones to do their job, all while being watched from the sky.

FRENZY
SEMI-SUBMERSIBLE MICRO USV





Prowler is equipped with a computer networked system able to support a multitude of UMAA-compliant command and control, autonomy, targeting, and AI software packages. Prowler's system architecture provides the forward flexibility to accommodate third party software and/or hardware upgrades to support collaborative intercept capability or other technologies as they may be required.

Metal Shark boasts extensive experience as an autonomous technology integrator, having successfully designed, built, tested, and delivered multiple vessels equipped with autonomy solutions from a range of software providers including HII, L3 Hatis, and Sea Machines. Most recently, Metal Shark successfully designed and built the USMC's Long Range Unmanned Surface Vessel (LRUSV), below.





Designed by Metal Shark, powered by innovation,
and proudly built in Louisiana, USA in support of those
who protect and serve.

