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NAVAL CRAFT



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EUREKA NAVAL CRAFT
BENGAL - Module Center

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NAVSEA | PED USC | PMS 406
Product Service Code 1908
Modular Attack Surface Program (MASP)
August 11, 2025



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NAVAL EFFICIENCY BY DESIGN

AT A GLANCE

VESSEL

RECAP



AT A GLANCE



U.S.-based naval defense solutions company that designs, develops, and manufactures cutting-edge non-ITAR naval vessels based upon designs and technologies proven and used by the offshore energy industry

Eureka aims to revolutionize the naval defense industry by delivering high-performance, reliable, cost-effective solutions with a diverse portfolio of products including naval combat vessels, support vessels, and specialized craft for search & rescue and border enforcement

Innovative Design and Technology

- Vessels incorporate the latest maritime and defense technological breakthroughs
- Cutting-Edge combat systems and capabilities to address any challenge confidently at any time

Unmatched Performance and Resilience

- Surface-Effect-Ship Design for very high cruising speeds on a very stable platform
- Application of only the highest-performing materials and advanced engineering techniques

Comprehensive Support Services

- Full suite of support services including training, maintenance, and life cycle upgrades
- Ensures that the client is always fully prepared to utilize our vessels effectively in real-world operations

Cost-Efficiency

- Leveraging designs and technologies proven and in use in the offshore energy industry, our high-quality vessels are very price-competitive and can be built at cost-effective civilian yards worldwide.
- Possibility to lease vessels to governments, navies, and coast guards.

AT A GLANCE

Eureka Naval Craft was founded with the goal of revolutionizing the defense industry by applying proven designs from the commercial offshore energy and high-speed ferry sectors. By introducing the innovative Surface-Effect-Ship (SES) concept and incorporating state-of-the-art technology for unmanned and remote-controlled operations, we are establishing a new benchmark in naval defense. Our vessels feature the latest advanced weapon systems from leading OEMs, delivering exceptional capability and performance.

Eureka's innovative approach to maritime defense supports the U.S., NATO, and allied militaries worldwide, offering a critical advantage in challenging naval and amphibious operations, including in the most isolated locations. Our advanced technologies also improve border security and anti-smuggling efforts, contributing to a safer and more secure maritime environment for all.

In essence, Eureka's suite of naval vessels is:

- Cost-Effective
- Smarter
- More Efficient
- Faster
- More Powerful
- Easier to maintain
- More Flexible
- More Agile
- Easier to operate
- More Stable
- Available quicker

...than any existing competition in its weight class.



AT A GLANCE

Solutions Based Upon Proven SES Technologies





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**Partnering on
Next-Generation Technologies
to Enhance Quality and
Accelerate Vessel Construction**

ADVANCING SHIPYARD TECHNOLOGY



Dynamic Beam Lasers

High Power Single Mode CW – The Most Advanced Laser for Welding

The Most Advanced Dynamic Beam Shaping capabilities for superior control of keyhole and melt pool.

Civan's Dynamic Beam Laser (DBL) allows the shipyard to quickly tailor the welding process to the application. With the ability to control beam shape, beam sequence, shape frequency, and focal depth at MHz speeds without any moving parts.

Civan's disruptive DBL technology facilitates rapid process optimization, eliminating unwanted joining defects such as pores, cracks, and humping. Civan's lasers not only improve joint quality but also offer increased power, increased feed rates, and more efficient production of new, complex, products made of dissimilar materials.

Civan's Dynamic Beam Laser enables to control beam shape, sequence, frequency, and focal depth at MHz speeds without any moving parts. Allowing supreme control of the thermal gradient, melt pool flow dynamics, and solidification = **Perfect Welds.**

Deeper. In a Single Pass.

25 mm
40 mm
42 mm
50 mm
50 mm
60 mm
70 mm

Illustration of Laser-Based System

- 🔄 **Speed Unlimited**
 The Dynamic Beam Laser's fast welding speeds and low heat input enables the welding of metal plates up to 70mm thick.
- 🎯 **Heat Affected Zone**
 Low Heat Input reduces the size of heat affected zone preventing distortion. Dynamic Beam lasers produce a high quality weld with minimal thermal impact on the surrounding metal.
- 🗑️ **Consumables Free**
 Civan's Dynamic Beam Lasers eliminate the need for expensive consumables such as welding wire, gas, and flux.
- ⚡ **Efficient Energy**
 The efficiency of Dynamic Beam lasers reduces energy waste and lowers the power cost of your welding process.

Uniform Beam Shape
Depth control beam shape with software.

Shape Frequency
Control the shape of the melt pool to optimize.

Shape Sequence
Switch between DBL shapes with microsecond.

Focus Position
Soft focus length at up to 4000 without moving parts.

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Modular Attack Surface Craft (MASC)

AIRCAT BENGAL-MC

Building a cost-effective and numerically credible naval vessel fleet is now achievable with Eureka Boats' AIRCAT BENGAL-MC. This next-generation vessel offers high-speed persistent multi-role capabilities, utilizing ESNA's Surface Effect Ship (SES) design and technologies proven in the international offshore energy industry.

Forward based AIRCAT BENGAL-MCs are essential assets for enhancing threat deterrence with sustained presence and fast response engagement commitments. These vessels, equipped with extensive hard and soft kill capabilities, utilize cutting-edge modular warfighting systems to protect against threats on the surface, in the air, and under the sea. They serve as highly mobile counter UAS, USV, and UUV platforms, safeguarding critical infrastructure, naval bases, and larger vessels in various theaters of operations.

The operational resiliency and sea denial capabilities of AIRCAT BENGAL-MC in contested waters are reinforced by a mix of proven technologies, high speed, long range, stealth features, and non-kinetic and kinetic systems. Additionally, these versatile vessels support logistics and medical triage/evacuation in high-threat environments, ensuring operational efficiency in challenging arenas.

Prepared for littoral waters, AIRCAT BENGAL-MCs function as scouting craft, escorts, patrol craft, gun and missile boats, drone launch and recovery platforms, and high-speed interceptors in shallow waters. They facilitate frontline scout reconnaissance operations while self-recovering from beaches



AI Enabled
Autonomy



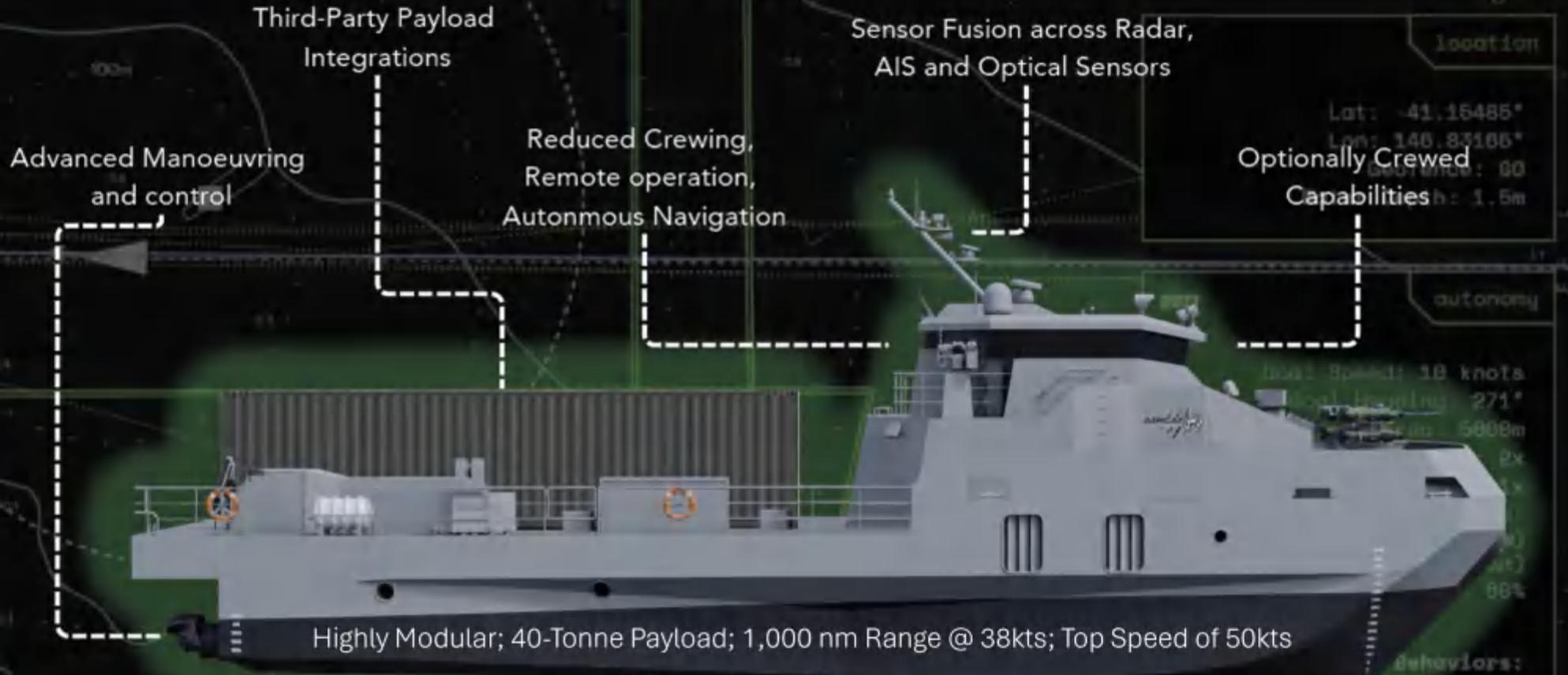
Edge
Processing



Advanced Situational
Awareness



AIRCAT Bengal MC



AIRCAT Bengal-MC - Modular Attack Surface Craft (MASC)

Distinctive Advantages

- Based upon the IACS-approved oil & gas operationally-proven design, the AIRCAT 35 Crewliner
- Autonomy-Ready, fully UMAA-compliant integrated design, delivered in partnership with naval autonomy solutions provider, Greenroom Robotics
- Substantially reduced construction costs and operational expenses
- Impressive range with exceptional speed capabilities (Top speed of 50kts+)
- Highly stable platform enhancing the accuracy of weapons systems
- Full-size deck footprint for accommodating multiple larger strategic mission systems
- Fully customizable modular design

Refer to the BENGAL-MC Capability Table



Capability Table

AIRCAT BENGAL-MC

Modular Attack Surface Craft (MASC)



		BENGAL-MC	BENGAL-MC (L)	BENGAL-MC (M)	BENGAL-MC (H)
LOA	ft	118	131	144	157
Beam	ft	46	58	78	79
Draft (On Cushion / Off Cushion)	ft	2.3 / 1.9	2.3 / 1.9	2.3 / 1.9	2.3 / 1.9
Air Draft (Off Cushion)	ft	35	56	56	36
Capable of Fitting in Well Deck (LHD/LHA, LPD, LSD)	(Y/N)	Y	N	N	N
Capable of Fitting on ESD	(Y/N)	Y	Y	Y	Y
Maximum Speed	kts	50+	50+	50+	50+
Maximum range with specified payload					
Mission Payload for maximum range	tons	24	24	25	145
Fuel load for maximum range	tons	35	58	185	100
SS0 Service Speed	kts	40	45	45	45
SS0 Range (10% Fuel Reserve)	nm	1060	1200	3800	1600
SS4 Avg Service Speed (1.5m Hs)	kts	33	35	35	35
SS4 Avg Range (1.5m Hs, 10% Fuel Reserve)	nm	930	940	3100	1400
SS4 High Service Speed (2.5m Hs)	kts	27.5	30	30	30
SS4 High Range (2.5m Hs, 10% Fuel Reserve)	nm	650	740	2600	1100
Range with 1 x FEU @ 35.3 t					
Container payload	tons	35.3	36.3	36.3	
Fuel load	tons	22.7	37.7	173.7	
SS0 Service Speed	kts	40	45	45	
SS0 Range (10% Fuel Reserve)	nm	890	950	3570	
SS4 Avg Service Speed (1.5m Hs)	kts	33	35	35	
SS4 Avg Range (1.5m Hs, 10% Fuel Reserve)	nm	540	710	2910	
SS4 High Service Speed (2.5m Hs)	kts	27.5	30	30	
SS4 High Range (2.5m Hs, 10% Fuel Reserve)	nm	420	560	2440	
Range with 2 x FEU @ 36.3 t					
Container payload	tons			72.6	
Fuel load	tons			137.4	
SS0 Service Speed	kts			45	
SS0 Range (10% Fuel Reserve)	nm			2620	
SS4 Avg Service Speed (1.5m Hs)	kts			35	
SS4 Avg Range (1.5m Hs, 10% Fuel Reserve)	nm			2100	
SS4 High Service Speed (2.5m Hs)	kts			30	
SS4 High Range (2.5m Hs, 10% Fuel Reserve)	nm			1930	
Range with 3 x FEU					
Container payload	tons			108.9	
Fuel load	tons			101.1	
SS0 Service Speed	kts			45	
SS0 Range (10% Fuel Reserve)	nm			2080	
SS4 Avg Service Speed (1.5m Hs)	kts			35	
SS4 Avg Range (1.5m Hs, 10% Fuel Reserve)	nm			1650	
SS4 High Service Speed (2.5m Hs)	kts			30	
SS4 High Range (2.5m Hs, 10% Fuel Reserve)	nm			1420	
Range with 4 x FEU					
Container payload	tons			145	145
Fuel load	tons			64.6	100
SS0 Service Speed	kts			45	45
SS0 Range (10% Fuel Reserve)	nm			1350	1800
SS4 Avg Service Speed (1.5m Hs)	kts			35	35
SS4 Avg Range (1.5m Hs, 10% Fuel Reserve)	nm			1090	1400
SS4 High Service Speed (2.5m Hs)	kts			30	30
SS4 High Range (2.5m Hs, 10% Fuel Reserve)	nm			810	1100

Also available in MS Excel format





- Large modular aft deck
- Fully customizable to the mission



SH DEFENCE

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AIRCAT Bengal MC + Cube™ Mine Laying System



Autonomous Capable Mine Laying Solution

Non-ITAR | SES | High-Speed | Stable Platform | High Endurance

Top Speed: 50+ kts | Range: 1,000 nm @ 38 kts | Payload: 40 Tons

Employs Autonomy and AI Software Supplied by Greenroom Robotics



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NAVAL EFFICIENCY BY DESIGN

RECAP

Today's naval defense solutions are outdated, sluggish, and costly –
Let's change that!



Eureka's Mission: To revolutionize the naval defense sector by delivering unparalleled, high-performance, and cost-effective solutions adapted from the offshore energy industry while relentlessly pushing the limits of technology and innovation.

Eureka's Vision: To establish ourselves as a global leader and beacon of innovation in maritime defense.



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Please be advised that all of the defensive and offensive systems shown within this slide deck have been mapped for potential integration compatibility; however, all purchasers of vessel(s) should engage directly with licensed defense system OEMs as Company is solely a provider of non-ITAR restricted vessel platform solutions and accordingly does not deal, trade, or resale items in which their export is restricted by the Arms Export Control Act (Title 22, U.S.C., Sec 2751, et seq.).