

## **News release from Eureka Naval Craft, US naval defense company and Australian maritime autonomy company, Greenroom Robotics**

[www.eureka.navy](http://www.eureka.navy) [www.greenroomrobotics.com](http://www.greenroomrobotics.com)

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### **Designs for ‘most advanced autonomous naval attack vessel in the world’ to be unveiled at Sea Air and Space conference**

US defense company Eureka Naval Craft and Australian marine autonomy specialist Greenroom Robotics are set to unveil what they describe as ‘the most advanced autonomous naval attack vessel ever designed’ at the forthcoming Sea Air and Space Exhibition in Maryland USA, April 6-9.

The AIRCAT Bengal MC (“Module Carrier”) is a 36m multi-mission Surface Effect Ship (SES) and is being developed by Eureka and ESNA Naval Architects with autonomy and AI software supplied by Greenroom.

Eureka Naval Craft CEO, Bo Jardine, said the ground-breaking vessel is the first autonomous naval vessel anywhere in the world to be able to carry a 40-tonne payload (2 X 40 ISO Footprint modules) with a top speed of more than 50 knots, payload depending, and a range of 1,000 nautical miles.

Jardine confirmed the vessel will be offered to the US Navy, US Marine Corps, and navies allied to the US, including AUKUS and NATO countries, as well as Singapore, Japan, South Korea, Vietnam, Thailand and the Philippines.

“We’re very excited to reveal the AIRCAT Bengal MC,” he said. “This is a high-speed, high-tech ship able to operate crewed and uncrewed. It is further bristling with lethality and can launch Tomahawk cruise missiles and anti-ship Naval Strike Missiles (NSM). This ‘force projection’ capability is very important as it de-risks the reliance on much bigger, more expensive crewed warships to fire missiles. The reality is the naval market in this weight class needs disrupting. Too many vessels today are outdated, sluggish, and expensive. The AIRCAT Bengal MC offers a very fast alternative ship which is armed to the teeth, can be made autonomous, and has the capability to carry much heavier payloads at speed, increasing lethality.”

Jardine said lower building cost is a key advantage of the AIRCAT Bengal MC.

“The vessel stands out by providing a more cost-effective solution compared to current naval corvettes and frigates, thanks to its optimized design and use of modular construction techniques that reduce both manufacturing and repair costs. Furthermore,

the Bengal MC's superior fuel efficiency and lower operational overhead make it an attractive option for navies looking to maximize their budgets while maintaining advanced capabilities."

Jardine said the Bengal MC vessel is so versatile it can be used as a troop transport vessel, landing support craft, electronic warfare platform, drone mothership and for mine laying and counter-mine warfare.

Greenroom Robotics CEO James Keane said AIRCAT Bengal MC will have the most advanced autonomous navigation system in the world and software tooling enhancing humans through all phases of operations.

"This is a terrific ship and we're delighted to be working with Bo Jardine and the Eureka team on the software," he said. "The AIRCAT Bengal MC will benefit from the proven Greenroom Advanced Maritime Autonomy (GAMA) Software system Greenroom have spent years developing and had validated on a 57m decommissioned Armidale-class patrol boat, *Sentinel*, known as the Patrol Boat Autonomy Trial (PBAT).

"PBAT was rapidly executed to become one of the most successful autonomy projects ever undertaken on a naval vessel where Greenroom collaborated with Trusted Autonomous Systems, Austal Australia and the Royal Australian Navy. Drawing on this expertise the AIRCAT Bengal MC will have state-of-the-art AI-driven advanced situational awareness, and swarm-ready fleet enablement systems allowing naval or coastguard crews to operate with unparalleled precision, safety, and effectiveness in high-threat maritime scenarios."

Keane said Greenroom's software integration will ensure that the AIRCAT Bengal MC remains ahead of evolving maritime threats, offering enhanced capability for missions including surface warfare, drone and missile defense, special operations support, and rapid response scenarios. Specialised software for humans-in-the-loop will enhance the human machine team through all phases of AIRCAT Bengal MC operations.

The autonomous AIRCAT Bengal MC will join Eureka's fleet of AIRCAT vessels including the *Bengal*, *Lynx*, *Jaguar*, and *Panther*, each tailored to specific missions, ranging from fast attack, reconnaissance, rescue, high-speed troop transport and unmanned logistics. The modular design of Eureka's naval vessels allow clients to customize the vessels based on their operational needs.

Eureka's vessel fleet is designed for higher speed-to-weight ratio; lower fuel consumption, longer endurance, lower emissions. They further have improved ride qualities versus other vessels enabling greater accuracy with weapon systems, less wear and tear on their crews, sensors, weapons and other sensitive payloads.



### About Greenroom Robotics

Greenroom Robotics is an innovative Australian technology leader specializing in autonomous maritime systems and advanced artificial intelligence. Their software solutions provide unmatched situational awareness and autonomous navigation capabilities, with a focus on human machine teaming that significantly enhances operational effectiveness and safety for naval and maritime security forces.

### About Eureka Naval Craft

Eureka Naval Craft was founded in 2024 and is a pioneering U.S. defense technology firm dedicated to delivering next-generation, modular maritime platforms. Leveraging advanced Surface Effect Ship (SES) technology, Eureka’s vessels deliver unmatched speed, agility, and versatility to naval and coast guard operators worldwide.