

The Next Wave of Maritime Expeditions

Autonomous surface vehicles are transforming how we explore and operate across the open ocean

Autonomous surface vehicles (ASVs) are emerging as powerful platforms for scientific discovery, national security, and commercial operations. Capable of operating at sea for months at a time, these unmanned systems dramatically reduce the cost, logistical complexity, and safety risks associated with traditional crewed missions. As demand grows for persistent maritime data and long-duration operations, Seasats, a small but rapidly growing manufacturer based in San Diego, is on its own mission to develop and optimize their satellites at sea.



Speed



Durability



Custom
Parts



Cost



Solution Found in Additive Manufacturing

- Efficient low-volume production
- Rapid design iteration enabled by Multi Jet Fusion (MJF) technology
- Capable of producing unique, custom geometries
- Accelerated production with turnaround as fast as one day

Final Product: Seasats ASVs Enhanced with 3D Printed Components

- Incorporates more than 60 MJF parts including brackets, connectors, and clamps
- Rapidly produced components enable customers to install payloads and deploy ASVs on the water within days
- MJF manufacturing supports higher vehicle production while delivering stronger, more durable parts
- A streamlined supply chain has helped reduce overall production costs by 15%

➤ **Looking to the future of product development with additive manufacturing, MacKenzie Wasson, project manager at Seasats, said,**

"It gives my engineering team the confidence and freedom to continuously iterate and drive product improvements, knowing that we can seamlessly get new parts into production."

DRIVING THE EVOLUTION OF AUTONOMOUS SURFACE VEHICLES

Seasats ASVs have successfully completed increasingly longer missions, lasting up to 73 days, including two voyages from San Diego to Hawaii.

Committed to innovation and efficiency, Seasats is incorporating more digital textures into its ASV components.

With additive manufacturing enabling increased production, Seasats will expand its product line to meet growing demand.

Find out how ADDMAN can take your product from prototype to production.

Visit addmangroup.com today or contact us directly at (888) 266-1837 or, info@addmangroup.com