

Argos 90

Marine Research Mission

Big Science For Smaller Ships

Licensed P.E.

Member:

SNAME

ABYC

Phone: +1 616 504 1619

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Summary

Whether observing local weather, monitoring fish populations, or exploring deep sea ecosystems, the *Argos 90* has the tools to meet a wide range of research missions. Designed as a drone carrier, the *Argos 90* lends itself to mass data collection. No more single point samples. Now, you survey an entire swath of the ocean.

Aerial Drone Operations

The biggest limit for any aerial drone is power. Batteries only support limited flight time. The *Argos 90* helps to optimize your flight time and even extend it.

- | | |
|-----------------------|--|
| Massive flight deck | Simultaneously launch a full swarm of drones at once. Don't wait for each unit to get airborne. Start data collection now. |
| Aerial tether | Lightweight tether to supply power for aerial drone. Supports unlimited operating time. |
| Protected mission bay | Maintain drones in mission bay and use drone elevator to lift to the flight deck. |
| Large drone support | Multiple crane options to transport large aerial drones to the flight deck. Big or small, we can still launch. |



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Surface Drone Operations

Massive mission bay	Massive mission bay to store, maintain, and deploy surface drones
Stern ramp	Stern ramp to deploy and recover drones even in high seas. Also includes bridge cranes to lower drones into water.
Control center	Dedicated drone control center
Dry lab	Dry lab can be used for drone maintenance and repair.

Submerged Drone Operations

Onboard ROV	Integrated ROV, with deployment over side or through moonpool
Moonpool	5.0 m x 5.0 m moonpool for deployment in high seas
Logistics	Onboard cranes transfer from mission bay to working deck and moonpool deployment.

Deck Equipment

Cargo capacity	488 MT Cargo 15 TEU of containers typical 34 TEU of containers max
Main crane	Telescoping crane Max capacity: 89.6 MT (88.2 LT) Max reach: 24.4 m (80.0 ft) Active heave compensation
Bridge cranes	2x Bridge crane – 15 m span Capacity: 50 MT each (49.2 LT)

Accommodations

Personnel	25 Scientists 20 Crew
Onboard charter facilities	Wet lab: 82 m ² (879 ft ²) Dry lab: 89 m ² (953 ft ²) Drone control center: 72 m ² (774 ft ²) Vessel wide computer network
Auxiliary facilities	Charter office spaces Amphitheater Dedicated scientist lounge
Communications	Global Starlink network