

Argos 90

Survey Mission Profile

Big Science For Smaller Ships

Licensed P.E.

Member:

SNAME

ABYC

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Summary

The *Argos 90* supports conventional survey technology, and you can use drones to massively expand the survey area. Map more area in less time.

Conventional Survey

Sonar	Deep sea multi-beam survey sonar
Vessel roll angle	$\pm 1.01^\circ$ controlled roll in Seastate 5 (Beaufort 6)
Data processing	Onboard computer network Server room supporting massive storage capacity

Drone Survey

Add drones with onboard sonar to drastically increase survey area in shallow and coastal waters.

Drone capacity	Mission bay easily stores 14+ drones sized at 10 m (33 ft) each.
Deployment	Easy stern deployment with stern ramp or bridge crane
Maintenance	Protected mission bay with cranes for maintenance Dry lab for delicate component maintenance Storage facilities for spare parts
Operations	Dedicated drone operation room Mission specialist station on bridge for easy communication

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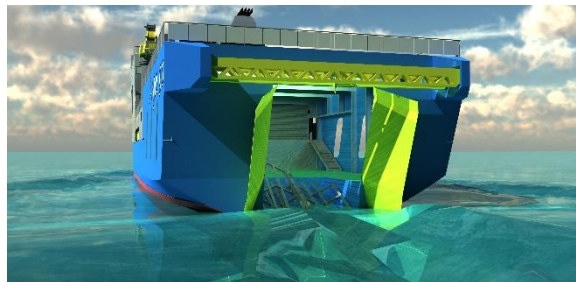
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Towed Sonar

Deploy towed sonar from stern ramp.



Current / Temp / Depth (CTD) Survey

CTD deployment from stern ramp, with bridge cranes

CTD deployment over side with main crane

Heavy weather: deploy CTD through moonpool with main crane

Use vertical profiling drones for CTD measurement over wide area



Vessel Power / Propulsion

Propulsion	4x VOITH eVSP 21 Fast response and precise vessel positioning
Dynamic positioning	DP2 minimum (DP3 possible)
Cruise speed	12 knots
Range at cruise speed	9000 NM
Heavy weather	Sustained operations SS7 (Beaufort 9) 99.5% uptime

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