

Almirante Saldanha

Research and Support Vessel



VESSEL INFORMATION

Owner	Emgepron, Brazilian Ministry of Defence		
Shipyard	Estaleiro Jurong Aracruz Ltda, Brazil		
Hull Number	TBA		
Year Built	2025		
IMO Number	TBA		
Ship Design	Seatrium Ltd & Robert Allen Ltd, Canada		
Class	Lloyds Register, Ice PC6		
Engine	Electric Motors		
Type: Induction el motor	Power 2 x 3000 kW	RPM: 155	

BRUNVOLL SUPPLY

Propellers	2 x FP85, 5 bladed monoblock, 3500 mm, with Integrated Costa Propulsion (ICP)
Thrustbox	TH 750
Rudder	2 x Becker Marine
Steering Gear	2 x Van der Velden (Rotary Vane)
Tunnel Thrusters	Stern: 2 x RDT1000 - 300 kW
Control System	Brucon PTC - Propulsion and Thruster Control
Dynamic Positioning System	BruCon DP2 with Joystick
Condition Monitoring System	BruCon CMS

Diesel Electric Hybrid Propulsion

Low noise and vibration levels are crucial for conducting scientific research onboard an oceangoing vessel. Utilizing a fixed pitch propeller configuration with electric motors directly coupled to the propeller shafts helps to reduce noise and vibration levels from the main propulsion while ensuring high energy efficiency. The Integrated Costa Propulsion (ICP) - is an integrated and optimised design of propeller and rudder with bulb, giving increased propulsion efficiency.

To achieve the required redundancy for Antarctic exploration, a twin-screw arrangement is applied.

Additionally, two rim-driven tunnel thrusters with low noise and vibration characteristics are installed aft for maneuvering purposes.

The vessel will be equipped with Brunvoll's Propulsion and Thruster control system (BruCon PTC) and the dynamic positioning system BruCon DP2 with joystick control. This integrated system seamlessly connects all the propulsion and maneuvering equipment, including two pump-jet type bow thrusters, providing the operator with the capability to conduct safe and efficient maneuvering operations.