



R/V IMOR

Technical Specifications

GENERAL OVERVIEW

FEATURE	DETAILS
Vessel Type	Research vessel / shallow-water research catamaran
Owner / Operator	Gdynia Maritime University
Classification	PRS Research Vessel *KM I Auto
Navigation Region	Unlimited NAV I
Primary Functions	Coastal zone research, shallow-water surveys, hydrographic measurements, environmental monitoring and marine research operations
Commissioned	2006
Operational Profile	Designed for coastal, shallow-water and offshore research activities requiring high manoeuvrability and specialised survey equipment

VESSEL DIMENSIONS & CAPACITIES

METRIC	SPECIFICATION
Length Overall (LOA)	32.50 m
Beam (Width)	10.50 m
Average Draught	2.21 m
Maximum Draught	2.44 m
Displacement	370 tonnes
Range	2,500 NM
Economical Speed	8 knots
Maximum Speed	10 knots
Sailing Autonomy	Minimum 21 days
Fuel Capacity	39 tonnes
Fresh Water Capacity	22 m ³
Water Production Capacity	3 m ³ /day
Accommodation	8 single cabins and 4 double cabins
Onboard Facilities	Mess room and kitchen with air conditioning

MACHINERY & PROPULSION

IMOR is equipped with an internal combustion/electric propulsion system designed to provide precise manoeuvring capability during research operations.

Power Generation

COMPONENT	SPECIFICATION
Generator 1	Volvo Penta 415 kVA (332 kW)
Generator 2	Volvo Penta 401 kVA (321 kW)
Generator 3	Volvo Penta 180 kVA (144 kW)

Propulsion System

COMPONENT	SPECIFICATION
Main propulsion	Two double-suspended twin-screw azimuthal propulsion units
Propulsion units	SCHOTTEL STP 200
Active steering systems	2 × 300 kW
Hydraulic steering systems	2 SCHOTTEL hydraulic steering systems
Bow thrusters	SPJ 22, 2 × 75 kW
Electrical system	3 × 400 V, 50 Hz

DECK & HANDLING EQUIPMENT

FEATURE	SPECIFICATION
Working deck	80 m ² stern deck
Deck crane	40 kN capacity
Gantry	DOR 30 kN
Electric mooring equipment	120 kN (10 m)
Container capacity	Space for 2–3 small equipment containers on stern deck
Upper deck container position	Space for one 20-foot container
Additional equipment capability	Accommodation of additional laboratory modules, research equipment, specialist teams or ROV systems

LABORATORY & RESEARCH FACILITIES

FEATURE	SPECIFICATION
Computer laboratory	40 m ² laboratory with onboard servers
Network infrastructure	Shipboard network covering 16 rooms
Transducer installation well	Dedicated internal-access well for installation of multi-beam probe transducers and underwater positioning systems
Research support spaces	Areas for onboard processing, equipment handling and deployment of specialist research systems

SURVEY & SCIENTIFIC EQUIPMENT CAPABILITIES

Hydrographic and Seabed Surveys

- Bathymetric and hydrographic measurements
- Seabed mapping and underwater positioning operations
- Support for marine infrastructure surveys and coastal research activities
- Installation and operation of specialist acoustic survey equipment through the dedicated transducer well

Sediment and Geotechnical Sampling

Sediment sampling capability:

- up to 10 m below the seabed
- in water depths up to 100 m

Environmental and Coastal Monitoring

Capabilities include:

- Coastal zone monitoring
- Marine environmental surveys
- Water and sediment sampling
- Research supporting assessment of coastal processes and marine ecosystems

RECENT REFIT

As part of ongoing maintenance and modernisation, R/V IMOR has undergone refurbishment works aimed at maintaining its operational capability and ensuring continued support for contemporary marine research activities.

The refit included improvements to onboard systems, equipment spaces and operational infrastructure, allowing the vessel to continue supporting hydrographic surveys, environmental monitoring and specialist research activities.