



## GENERAL OVERVIEW

| FEATURE                  | DETAILS                                                                                  |
|--------------------------|------------------------------------------------------------------------------------------|
| Vessel Type              | Training and research vessel                                                             |
| Owner / Operator         | Gdynia Maritime University                                                               |
| Flag                     | Poland                                                                                   |
| Home Port                | Gdynia                                                                                   |
| Call Sign                | SPGN                                                                                     |
| IMO Number               | 9231925                                                                                  |
| Classification Society   | Polish Register of Shipping (PRS)                                                        |
| PRS Class                | KM RESEARCH / TRAINING SHIP [1] L2 AUT                                                   |
| Hull Project             | Polarex                                                                                  |
| Hull Launched            | 1 January 1990, Wisła Shipyard, Gdańsk                                                   |
| Completed / Commissioned | 22 June 1999, Gdańska Stocznia Remontowa S.A.                                            |
| First Raising of Flag    | 28 April 2000                                                                            |
| Primary Operating Area   | Baltic Sea, Arctic waters, international waters including regular voyages to Spitsbergen |

## PRINCIPAL DIMENSIONS AND CAPACITIES

| PARAMETER                                | SPECIFICATION |
|------------------------------------------|---------------|
| Length Overall (LOA)                     | 56.34 m       |
| Length Between Perpendiculars            | 48.37 m       |
| Breadth                                  | 11.36 m       |
| Draught                                  | 5.33 m        |
| Gross Tonnage (GT/GRT)                   | 1,321         |
| Net Tonnage                              | 396           |
| Deadweight                               | 288 t         |
| Fuel Capacity                            | 265.6 t       |
| Fresh Water Capacity                     | 60 t          |
| Maximum Speed                            | 12 knots      |
| Crew Capacity                            | 16 persons    |
| Scientific / Training Personnel Capacity | 40 persons    |
| Total Persons On Board                   | 56 persons    |

## MACHINERY AND PROPULSION

| SYSTEM                     | SPECIFICATION                                 |
|----------------------------|-----------------------------------------------|
| Main Engine                | 8 S 20 UD-H. Cegielski – Sulzer diesel engine |
| Main Engine Power          | 1,280 kW                                      |
| Nominal Engine Speed       | 1,000 rpm                                     |
| Propeller                  | CP 65 Wärtsilä controllable pitch propeller   |
| Propeller Diameter         | 2.1 m                                         |
| Bow Thruster               | SCHOTTEL STT 10 LK                            |
| Bow Thruster Power         | 125 kW                                        |
| Generator Sets             | 3 × MAN D 2840 LE-DEMP/MA                     |
| Generator Output           | 301 kW each                                   |
| Emergency Generator        | MAN D 2866 TE-DEMP                            |
| Emergency Generator Output | 158 kW                                        |

## DECK AND CARGO EQUIPMENT

| EQUIPMENT             | SPECIFICATION                                                 |
|-----------------------|---------------------------------------------------------------|
| Deck Cranes           | NOREQ and Palfinger cranes                                    |
| Container Capacity    | Two 20 ft ISO containers                                      |
| Container Facilities  | Standard and refrigerated containers                          |
| Laboratory Containers | Two 20 ft laboratory containers                               |
| Deck Equipment        | Cable and rope winches for deployment of scientific equipment |

## SCIENTIFIC AND RESEARCH EQUIPMENT

| SYSTEM / EQUIPMENT             | SPECIFICATION                                                      |
|--------------------------------|--------------------------------------------------------------------|
| Multibeam Echosounder          | ELAC SeaBeam 1180                                                  |
| Hydrographic Survey Capability | Bathymetric and seabed mapping surveys                             |
| Acoustic Current Measurements  | RDGP 600 Doppler Current Profiler                                  |
| Water Sampling System          | Multiwater Sampler System MWS 12 CT                                |
| Water Sampling Capacity        | 6–24 bottles, 1.7–10 litres                                        |
| Maximum Sampling Depth         | Up to 3,000 m                                                      |
| Environmental Monitoring Buoy  | CMB 4280 solar-powered moored data buoy                            |
| Laboratory Facilities          | Two modular laboratory containers equipped for research activities |
| Computer Network               | Integrated onboard research network                                |

## TRAINING AND OPERATIONAL FACILITIES

| SYSTEM                       | SPECIFICATION                                          |
|------------------------------|--------------------------------------------------------|
| Lecture Room                 | 32 seats                                               |
| Navigation Training Facility | Training bridge facilities with student workstations   |
| Computer Facilities          | Onboard computer centre                                |
| Accommodation                | Single and multi-berth cabins with sanitary facilities |
| Mess Facilities              | Crew and student mess areas                            |