



SHIP'S BASIC

Owner	Federal Ministry of Education and Research
Operator	Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research (AWI)
Managing company	Briese Schiffahrts GmbH & Co. KG RESEARCH
Built	Detlef Hegemann Roland-Werft GmbH & Co. KG, Berne 1990
Flag	Federal Republic of Germany
Classification	GL + 100 A5 E2 ,Special Ship' + MC E2 Aut.

MAIN ENGINE

Generators	3 x 800 kVA, 380 V, 50 Hz; 1 x 40 kVA, 380 V, 50 Hz; main generators, aux. generator
Aux. Equipment	Schottel Pump-Jet 620 kW, Special rudder type ,Becker', Interling stabilizer tank

Main Engine	3 MAN D.2842LE301 each 532 kW
Propulsion	LDW DC-motor GC 395/103/6 1100 kW

DIMENSIONS AND MAIN DATA

Tonnage	1322 GT / 396 NT
Length o.a.	54.59 m
Beam	12.50 m
Draught	4.16 m
Freeboard	1.93 m
Speed	abt. 12.5 kn
Cruising radius	abt. 7500 sm
Fuel Capacity	144 t
Freshwater Capacity	21.9 t
Aquarium Water	29 t
RO fresh water production	3 t/day

Network

Ship's network 380/220 V, 50 Hz via transformer
Stabilized network 380/220 V, 50 Hz via alternator

Lifting Gear

A-frame SWL 3t, gallow SWL 3t, main crane max. 6t,
aux. cranes 0.99 t

Winches

fishery winch 2 x 2100 m / 18 mm; 4 t net winder,
net monitor winch 1200 m / 11 mm; special (4-drum)
winch: 2930 m coax cable / 8 mm; 2750 m steel wire /
6 mm; 820 m coax cable / 11 mm; 2400 m coax cable
/ 11 mm

Accommodation

12 crewmembers and max. 12 scientists

Nautical Equipment

Gyrocompass, 2 x autopilot, 2 radars, radio navigation
systems: NMS 2000, MK 53B, Trimble 10X, Seral SR3
with colour plotter, radio direction finder, doppler-log
Dolog 22 D, EM-log Naviknot II

Acoustic Equipment

Navigation echo sounder, net monitoring system,
sediment echo sounder, 2 fishery echo sounders,
multi beam, ADCP

Communication

Telephone, 2 x talk-back systems, data collection and
distribution system for nautical, meteorological and
all kind of data (pc based), HF-SSB-radio telephone
1.6-30mc, VHF units, GMDSS A1, A2, A3, weather fax
receiver, iridium, dedicated line

Laboratories

Dry laboratory abt. 42 sq.m, wet laboratory abt. 28
sq.m, freezing laboratory abt. 9 sq.m, multipurpose
laboratory abt. 22 sq.m, space for containers abt. 38
sq.m

Supplies

380/220 V, 50 Hz network, 220 V, 50 Hz stabilized
network, 220 V, 50 Hz UPS, pressed air 4 bar,
industrial water, pure seawater, data distribution
system Werum Dship 3.0, remote control for acoustic
systems

