



SHIP'S BASIC

Owner	German Ministry for Education & Research
Operator	GEOMAR Helmholtz Centre for Ocean Research Kiel
Managing Company	Briese Schiffahrts GmbH & Co. KG RESEARCH
Flag	Federal Republic of Germany
Built	Schiffs- und Maschinenfabrik Cassens GmbH, Emden 1990
Type	Multipurpose Research Vessel
Classification	GL + 100 A5 E2 ,Special Ship' + MC E2 Aut.

Aux. Equipment	Schottel Pump-Jet 620 kW, Special rudder type ,Becker', Interling stabilizer tank
Generators	3 x 800 kVA, 380 V, 50 Hz, 1 x 228 kVA, 380 V, 50 Hz, 1 x 40 kVA, 380 V, 50 Hz, main generators, harbour generator, aux. generator

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
Fuel Capacity	144 t
Freshwater Capacity	21.9 t
RO fresh water production	3 t/day

MAIN ENGINE

Main Engine	3x Mitsubishi SGR2-MPTA (each 595 KW / 1500 rpm)
Propulsion	DMT DC-motor GC 395/103/6 1100 kW

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 1200 m, 20 mm, 4 t net winder,
winch for net monitoring system 1200 m, 11 mm,
special (4-drum) winch: coax cable 11 mm / 900 m;
working wire 16 mm / 800 m; coax cable 11 mm /
1200 m; serial cable 6mm / 2800 m

Accomodation

11 crewmembers and max. 12 scientists

Nautical Equipment

Gyrocompass, 2 x autopilot, 2 radars,
Sperry Marine Naviknot (Sat-Log), 2 x D-GPS (Furuno
GP-150 and GP-170), 2 x Navi-Sailor 4000-ECDIS,
1 x Sodena, 1 x Skipper EM-Log224

Acoustic Equipment

Skipper GDS101 (echo sounder), Simrad EK60 (fishery
echo sounder), Sediment echo sounder

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 unit, GMDSS A1, A2, A3,
Iridium, weather fax receiver, AIS (Furuno FA-150)

Laboratories

Dry laboratory abt. 42 sq.m, wet laboratory abt. 28
sq.m, freezing laboratory abt. 9 sq.m, chemistry labo-
ratory abt. 15 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, indus-
trial water, pure seawater, data distribution system
,DATADIS', remote control for acoustic systems

