

Briese Schifffahrts GmbH & Co. KG

Abteilung Forschungsschifffahrt

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RV MARIA S. MERIAN

Ship's Basic

Owner	State of Mecklenburg Vorpommern, Baltic Sea Research Institute Warnemünde
Operator	Institute for Marine Sciences, 'Leitstelle METEOR'
Flag	Federal Republic of Germany
In service	since February 2006
Type	Multipurpose Research Vessel
Classification	GL +100 A5 E3* Nav-OC Special Ship + MC E3 AUT RP3 50% * strengthened according to Polar Class PC 7

Dimensions and main data

Lenght o.a.	94.80 m
Beam	19.20 m
Draught	max. 6.50 m
Freeboard	3.00 m
Speed	cruise speed 12.5 kn / max. speed 15 kn
Fuel Capacity	620 t
Freshwater Capacity	100 t
Range	7500 nm
Endurance	35 days
Scientific Storage	150 t

Main Engine

Propulsion	diesel-electric 2 x 2050 kW POD 1 x 1900 kW Pumpjet
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Network

Ship's network 690/400/230 V, 50 Hz via transformer
Stabilized network 220 V, 50 Hz via alternator

Lifting Gear

A-frame/stern 200 kN; 3 cranes 50 kN each; 2 aux. cranes 15 kN each; 1 jib-boom 200 kN, 1 jib-boom 70 kN

Winches

2 mooring winches; 2 friction winches 150 kN each; 2 storage-winches (7000 m, 18 mm cable or fiber-optic-cable); 2 single core winches (6000 m, 30 kN, 11 mm cable); 1 serial winch (20 kN, 6 mm wire, 3000 m); multi-purpose winch (50 kN, 11 mm wire, 6000m)

Container Capacity

Deck: 14 x 20' or 29 x 10'
Hold: 7 x 20' or 14 x 10'

Accommodation

Accommodation: max. 23 crewmembers
and max. 23 scientists;

Navigational System

2 faseroptic gyros; integrated navigation (2 radars, ECDIS, track pilot, Argos DF, DGPS, Doppler-log, EM-log, Sat-log); Dynamic Positioning Class 1

Acoustic Equipment

EM 120 Multi-beam, EM1002 shallow water multi-beam, EA 600 single beam, Sub-Bottom-Profilers, ADCP, Pinger, Process-Control, video-surveillance (deck / winches), data acquisition & distribution, meteorological system

Communication

GMDSS A1, A2, A3, A4; Inmarsat, Fleet 77 and 33, Iridium, Intercom, RDF, GSM, VHF, MF, HF

Laboratories and scientific rooms

Deck lab, Hangar, Dry-lab, Chem-lab, echosounder-control room, computer-room/ data-control, salinometer-room, gravimetric-room, pulser-station, cool-lab, 2 moonpools

Other facilities

2 mess rooms, conference room, ship's office,
fitness opportunity (sauna and exercise room)

