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

Length 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
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-winch (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, 6000 m)

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-Profiler, 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)