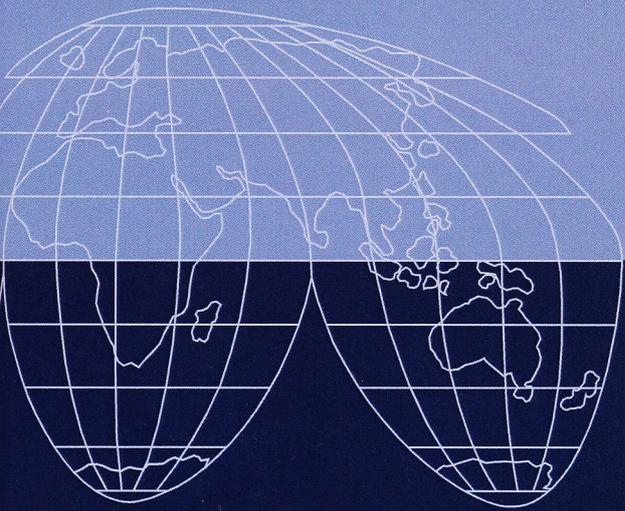




Research Vessel



- Oceanographic research
- Optimized hull form
- Excellent seakeeping
- Operational flexibility and efficiency
- Environmentally friendly



MEYER WERFT

PAPENBURG 1795



NEPTUN WERFT

ROSTOCK 1850

Research Vessel

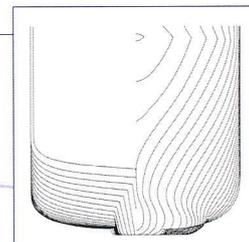
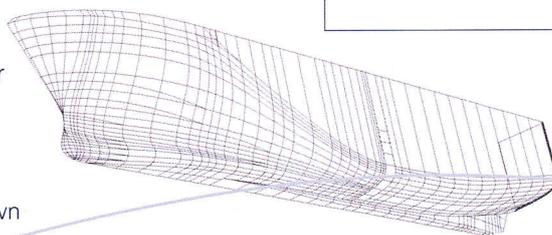
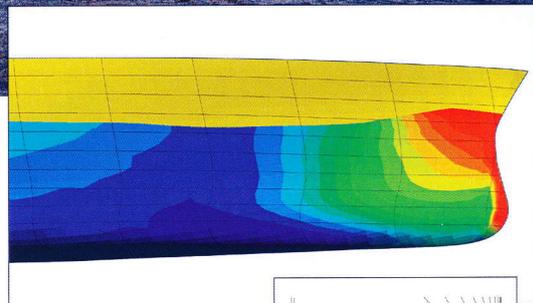
Facts & Figures

The new "SONNE" ordered by the Federal Ministry of Education and Research (BMBF) represents the pinnacle of shipbuilding excellence in the field of research vessels. Energy efficiency and environmental friendliness are key aspects in the function of the ship, combined with operational flexibility, endurance and low operating costs.

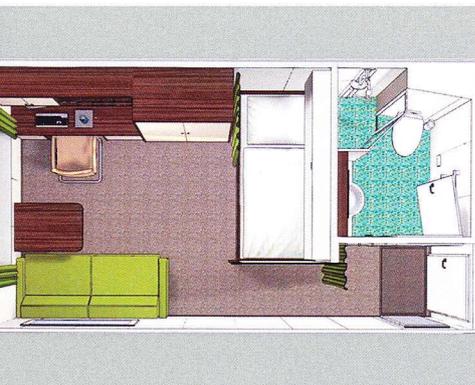


ENERGY EFFICIENT HULL DESIGN

- CFD optimization
- Extensive experience
- Good seakeeping
- Individual optimization for operational profile
- Low fuel consumption
- Optimized hull form to reduce bubble sweep down



Optimized working deck arrangement with cranes and container storage



3D computer drawing of a cabin. Spacious scientist and crew accommodation are offered on board

MAIN PARTICULARS

Length overall:	114.80 m
Breadth moulded:	20.60 m
Depth to main deck:	9.80 m
Design draught:	6.40 m
Tonnage:	8,600 gt
Endurance:	52 days
Service speed:	12 kn
Crew accomodation:	35 berths
Scientist accomodation:	40 berths

Propulsion:	
Gensets Wärtsila	4 x 1,620 kW
Retractable rudder propeller	
Schottel	2 x 860 kW
Pumpjet Schottel	1 x 2,990 kW

RULES

- Class notation GL |+| 100 A5 E
- Nav-OC Sonderschiff
- DP 1 BWM + MC E AUT RP3 (50%)
- SOLAS 1974 as amended
- Marpol as far as applicable
- International load line convention 1966, amendments 1988
- SPS-code 2008
- ICES 209
- Clean Ship and U.S.P.H.
- Blauer Engel (German environmental certificate)
- In compliance with 50 enviromental requirements like Tier III, double hull, etc.

EQUIPMENT

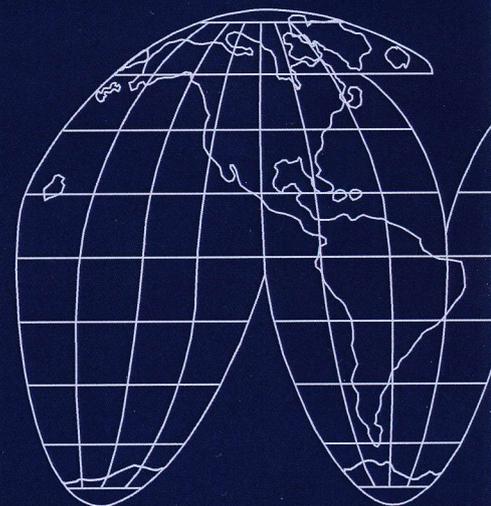
A-Frame	30 t
4 knuckle boom cranes	10 t
3 small cranes	2 x 2 t / 1 x 0.5 t
20' container storage	25 (4 inside)
Working winches	12,000 m
Sliding beams	250 kN / 70 kN
Large working deck	700 m ²
Scientific laboratories	550 m ²

- ROV handling equipment
- Absorption chiller
- Seismic equipment
- Deep sea transducer

Innovation & Technology



SHIPBUILDING IN PAPENBURG
SHIPBUILDING IN ROSTOCK



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