Research Vessel

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

MEYER WERFT
NEPTUN WERFT
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
### 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 accommodation:** 35 berths
- **Scientist accommodation:** 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 | H 100 A5 E
- Nav-OC Sonderschiff
- DP 1 BW M + MC E AUT RP3 (50%)
- SOLAS 1974 as amended
- Marpol as far as applicable
- International load line convention 1966, amendments 1988
- SP5-code 2008
- ICES 209
- Clean Ship and U.S.P.H.
- Blauer Engel (German environmental certificate)
- In compliance with 50 environmental 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 m²
- **Scientific laboratories:** 550 m²
- **ROV handling equipment**
- **Absorption chiller**
- **Seismic equipment**
- **Deep sea transducer**
Innovation & Technology

SHIPBUILDING IN PAPENBURG
SHIPBUILDING IN ROSTOCK

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