RV GUNNERUS - LNVZ
Multipurpose research vessel for Norwegian University of Science and Technology (NTNU)

Name R/V GUNNERUS
Owner Norwegian University of Science and Technology (NTNU)
Faculty of Natural Sciences and Technology
Designed by Polarkonsult AS, Norway
Built by Larsnes Mekaniske Verksted, Norway
Delivery year 2006
Port of Registry Trondheim, Norway
Classification Society Norwegian Maritime Directorate

Main dimensions
Length over all (Loa) 31.25 m
Length between pp (Lpp) 28.90 m
Length in waterline (Lwl) 29.90 m
Breadth middle (Bm) 9.60 m
Breadth extreme (B) 9.90 m
Depth mld. Main deck (Dm) 4.20 m
Draught, mld (dm) 2.70 m
Mast height / antenna 14.85 / 19.70 m
Dead weight 107 t

Class, Service Area
Range Coastal areas out to 20 nautical miles from the coast (Liten Kystfart) Designed and built according to European trade.

Class Notation DNV + 1A1 + Ice C + E0 + R2 Cargo ship

Deck equipment, scientific equipment and lab facilities
Trawl winches 2 x Mjosund 6 t, (wire D=14 mm, L=1000 m).
Net drum Mjosund 5 m³, D=2000mm, d=320mm
Main deck crane Palfinger 14 m / 35 tm
CTD crane HIAB/Mjosund, 5 m / 3.3 tm,
Water sampler wire 5 mm/750m
CTD wire 6,5 mm/750 m.
Stern mounted A-frame 6 t, hydraulic.
Hydraulic diving platform 500 Kg, 1,5m x 0,8m.
Hydraulic aggregate Mjosund 110 kW
Capstan Mjosund 8t/220bar, D=410, d=320, L=300
Anchor winch Mjosund 2 drums, 20 m/min, 2 x 12,5m ø 22mm K2 chain/
210m ø22mm. wire
Compressed air Atlas copco compressor
Workdeck 75 m²
Wet lab 13.9 m²
Dry lab 11.8 m²
Computer lab 11.2 m²
Container attachment: 5, 10, 15 & 20 feet alongside or 20 feet abeam.
CTD Saiv
CTD Sealogger 25, Seabird electronics inc.
Watersampler system: Carousel water sampler, 12 x 2,5l bottles. Seabird electronics inc
Workboat: Polarcirkel 560 Work, Yamaha 80hp

**Capacities**
- Crews cabins / berths: 6 / 11
- Daytime personnel capacity: 25 incl. crew
- Deadweight: 107 t
- Deck load: 45 t
- Fuel oil: 44 m³
- Fresh water: 11 m³
- Water ballast: 62 m³
- Cargo hold: 42 m³
- Galley: 4,5 m²
- Mess, conference and dayroom: 32 m² With 46” LCD monitor.

**Machinery: Diesel electric propulsion**
- Main electric propulsion: 1000 kW (Siemens 2 x 500 kW)
- Main generators: 3 x Nogva-Scania 450 kW
- Bow tunnel thruster: 1 x Brunvoll 200 kW
- Speed at 100% MCR: 12,6 kn
- Cruising speed: 9,4 kn
- Gear: 2 x Finnøy
- Rudder: 2 x Rolls-Royce, Ulstein Hinze Rudder FB-H 1200
- Steering gear: 2 x Rolls-Royce, Tenfjord SR562-FCPX2

_The diesel electric system has been specially designed for low hydroacoustic noise levels._
_Diesel generators are mounted on a common double elastic frame and one of the generators are mounted in a noise dampening hood for special low noise mode._

**Navigation, communications and electronic equipment**
- Dynamic Positioning system: Kongsberg SDP-11 / cPos
- DP - Reference systems: GPS
- Heading, Attitude and Positioning Sensor: Kongsberg Seapath 300
- Acoustic positioning system: Kongsberg HiPAP 500
- Motion reference unit (MRU): Kongsberg Seatex
- Autopilot: Simrad AP50
- Compass, magnet: Nautisk service NS 150-A
- Compass, gyro: Simrad GC80 / 85
- Bearing repeater: Simrad DR76
- Differential positioning sensor: Kongsberg DPS 232
- Heading, attitude and positioning sensor: Kongsberg Seatex Seapath 300
- GPS: Furuno Navigator GP-90
- Radar: Furuno FAR 28x7 /FAR 21x7
- Log: Furuno Doppler speed log DS-80
- Echo sounder: Furuno FCV-1200L. 38, 50, 200 kHz – 2000m
- Echo sounder, multibeam: Kongsberg EM 3002s
- Catch monitoring system: Simrad PI54
Chartplotter 1  Telchart (AIS)
Chartplotter 2  Olex (Installed AIS, HT, SB, ITI, MBES)
Chartplotter 3  Olex LT (Office version)
AIS  Furuno FA-150
Navtex  JMC NT900
GMDSS console
VHF fixed radio  Sailor
VHF handheld radios  Jotron
UHF handheld radios  Icom
Satellite phone  Sailor
Internet in sea  ICE & Telenor mobilt bredbånd
Internet at pier Trondheim  Wireless broadband NTNU.

**Safety**

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
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<tbody>
<tr>
<td>MOB boat, inflatable craft</td>
<td>Narwhal 6 persons SOLAS aproved, Propulsion Mariner 20 Hp</td>
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<tr>
<td>Rescue boat davit</td>
<td>Ned Deck Marine</td>
</tr>
<tr>
<td>Life rafts</td>
<td>2 x 25 men each</td>
</tr>
<tr>
<td>Survival suits</td>
<td>25 Stearns model ISS-590i</td>
</tr>
<tr>
<td>Life jackets</td>
<td>Seamaster – 1983, SOLAS Approved</td>
</tr>
<tr>
<td>Work vests</td>
<td>25 Regatta</td>
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<tr>
<td>EPIRB</td>
<td>Jotron</td>
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<tr>
<td>SART</td>
<td>Jotron</td>
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<tr>
<td>Aircraft beacon</td>
<td>Jotron</td>
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<tr>
<td>Fire alarm system</td>
<td>Minerva Marine T1008</td>
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<tr>
<td>Fixed system</td>
<td>Engine room, CO2</td>
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<tr>
<td>Fire suit</td>
<td>Draeger</td>
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<tr>
<td>Search light</td>
<td>Tranberg</td>
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<tr>
<td>SAR</td>
<td>SECurus prototype, Apto maritime (Under construction)</td>
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<tr>
<td>Day and night vision</td>
<td>SECurus prototype, Apto maritime (Under construction)</td>
</tr>
<tr>
<td>Oil spill monitoring</td>
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*Details are believed to be correct but not guaranteed*