

## **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, prolonged 2019

Port of Registry Trondheim, Norway

Classification Society Norwegian Maritime Directorate

### **Main dimensions**

Length over all (Loa) 36.25 m

Length between pp (Lpp) 33.90 m

Length in waterline (Lwl) 24.90 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 72 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 m<sup>3</sup>, D=2000mm, d=320mm

Main deck crane Palfinger 18 m / 62 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

Side monted A-frame 4 t, hydraulic

ROV hangar, with skidding deck for side launch by A-frame

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  $\varnothing$  22mm K2 chain/

210m  $\varnothing$ 22mm. wire

Compressed air Atlas copco compressor

Workdeck 125 m<sup>2</sup>

Wet lab 13.9 m<sup>2</sup>

Dry lab 11.8 m<sup>2</sup>

Computer lab 11.2 m<sup>2</sup>

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, Suzuki 80hp

### **Capacities**

Accommodation cabins/beds 4 / 15

Daytime personnel capacity 25 incl. Crew (4-5 crew)

Deadweight 72 t

Deck load 25 t

Fuel oil 68 m<sup>3</sup>

Fresh water 18 m<sup>3</sup>

Water ballast 62 m<sup>3</sup>

Cargo hold 42 m<sup>3</sup>

Galley 4,5 m<sup>2</sup>

Mess, 21 chairs, and 46" LCD monitor.

Conference room, 8 chairs, networked, no monitors.

### **Machinery: Diesel electric propulsion**

Main propulsion 1000 kW (RollsRoyce 2 x 500 kW)

2 x Azipods

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 10 kn

Azipod

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

DP - Reference systems GPS

Kongsberg Seatex DPS 232

HPR, Kongsberg transponders.

Kongsberg Seatex RADIUS

Heading, Attitude and Positioning Sensor Kongsberg Seapath 300

Acoustic positioning system Kongsberg HiPAP 502

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 available

### **Safety**

MOB boat, inflatable craft Narwhal 6 persons SOLAS aproved, Propulsion Mariner 20 Hp  
Workboat, Polar Cirkel, 80 Hp Suzuki, 10 persons  
Rescue boat davit Ned Deck Marine  
Life rafts 2 x 25 men each  
Survival suits 25 Stearns model  
Life jackets SOLAS Approved  
Work vests 25 Regatta  
EPIRB Jotron  
SART Jotron  
Aircraft beacon Jotron  
Fire alarm system Minerva Marine T1008  
Fixed system Engine room, CO2  
Fire suit Draeger  
Search light Tranberg

SAR SECurus prototype, Apto maritime (Under construction)

Day and night vision SECurus prototype, Apto maritime (Under construction)

Oil spill monitoring SECurus prototype, Apto maritime (Under construction)

*Details are believed to be correct but not guaranteed*