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BYGG NR. 175 FLEKKEFJORD SLIPP & MASKINFABRIKK

DESIGN: SKIPSTEKNISK AS

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## RV «G.O. SARS»



"G.O. Sars", designated ST-368, is a Fishery and Oceanographic Research Vessel built at Flekkefjord Slip & Maskinfabrikk AS, Norway, for the Institute of Marine Research and University of Bergen, Norway.

BUILT 2003

Havforskningsinstituttet  
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## Contakt G.O.SARS:

E-post: [gosars@hi.no](mailto:gosars@hi.no)

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ECR: 55 90 64 44. Mob Chief eng: 95 44 01 51

Iridium: +881 622 463 404

IMO: 8915768

Signal letters: LDGJ

## Main dimensions:

Length O.A	77,5 m
Beam	16,4/18,6 m
Depth	7,5 m
Frame spacing	0,6 m
GT	4067 GRT
Bollard-pull:	ca. tonn
Cruise speed	10 kt.
Maximum speed	17 kt.
Endurance	45 days, Range 18000 n.mi.

## Winches, cranes, handling equipment

### Electric AC driven Fishing winches:

- ✓ 1 Anchor/mooring winch
- ✓ 3 x 5,5 t Capstan, 1 x 5 t Mooring winch
- ✓ 2 x Pelagic trawl winches, 60 tons
- ✓ 2 x Demersal trawl winches, 35 tons
- ✓ 1 Net drum, 47 tons
- ✓ 1 Split net-drum, 2 x 11.5 tons
- ✓ 2 x double Sweepine winches, 2 x 13 tons
- ✓ 2 x single Sweepine winches, 13 tons

### Electric AC driven scientific winches:

#### Hangar midship:

- ✓ 1 x Mocness winch, 5 tons
- ✓ 2 x CTD winches, 5 / 2 tons
- ✓ Multi purpose sounder winch, 5 tons
- ✓ Multinet/Mocness winch, 5 tons
- ✓ Hydrographic/plankton winch, 1 ton
- ✓ Deep operation winch Dynema rope 10 tons

#### Stern:

- ✓ Deep tow winch, 12 tons
- ✓ Deep tow winch, 5 tons
- ✓ Deep tow winch, optical cable 7 tons
- ✓ Mobile Focus Winch
- ✓ XX Mobile winches.

### Cranes and handling equipment:

- ✓ 1 x Hangar crane, SWL 16 tons
- ✓ 1 x Hangar crane, 3,8 tons
- ✓ 1 x CDT davit, 2 tons
- ✓ 2 x Elbow derrick cranes, 4 tons/14 m
- ✓ 1 x Elbow derrick crane, 6 tons/12 m
- ✓ 1 x Elbow derrick crane, 2 tons/13 m
- ✓ 1 x Z-frame in stern, 8 tons
- ✓ Mobile Winch and A-Frame for NORMAR ROV-Ægir 6000m.
- ✓ Mobile Deep Sea Corer Winch 6000m
- ✓ CTD-hangar: CTD-Winch/cabel and Net-Winch/cabel.

## Navigation and acoustic equipment

G.O.SARS is an ICES 209 URN vessel

The vessel is arranged with an integrated bridge instrumentation

Scientific/acoustic equipment:

The vessel is arranged with two independent drop keels for mounting of sensitive transducers/equipment.

Following equipment:

- ✓ EK 80 Echo sounder, 18,38,70,120,200,333 kHz
- ✓ EM 302 Multibeam echo sounder with 30 kHz transd.
- ✓ MS 70
- ✓ EM 710 Multibeam echo sounder
- ✓ SU 90 sonar. The Simrad SU90 long range, low frequency fish finding sonar.
  - 360 degrees omnidirectional
  - 90 degrees vertical tip
  - Operational frequency adjustable from 20 to 30 kHz
  - Narrow beams (opening angle 4,9 degrees at 30 kHz)
- ✓ SM 200 Short range sonar
- ✓ TOPAS PS18
- ✓ Simrad HIPAP Acoustic positioning system
- ✓ 2 x R.D.I. ADCP Acoustic doppler current profiler, 75 + 150 kHz
- ✓ Simrad ITI Trawl hydrophones
- ✓ HUGIN Autonomous Underwater Vehicles - AUV
- ✓ Deep Sea Corer-systemet
  - Core samples up to 23m, 6000m depth
- ✓ 2 X DropKeel
- ✓ DP-1 (Dynamic positioning)

## Tank capacities

- |                 |        |
|-----------------|--------|
| ✓ Water Ballast | 638m3  |
| ✓ Fuel oil      | 534 m3 |
| ✓ Freshwater:   | 171 m3 |

## Class

DNV +1A1, Ice C, E0, Dynpos AUT, Clean, Polar

## Propulsion power

- ✓ 3 x Wartsila 6 L32, 2700 kW / 720 rpm generator sets
- ✓ 3 x Siemens alternators, 3250 kVA, 690/60.
- ✓ 2 x TECO Westinghouse DC-propulsion motors 3000kW.
- ✓ Low cavitation 5-blade Propeller 4,2m, 0-160 rpm

## Thrusters

Maker Brunvoll AS

- ✓ One retractable azimuth forw. 900 kW
- ✓ One tunnel forward, resil. mount. 600 kW
- ✓ One tunnel stern, resil. mount. 450 kW

## Capability

- ✓ Automatic weather station
- ✓ Under way sea surface monitoring

DRAWING NO: 04650

