

ST-238

Skipsteknisk 

110 x 22m Submarine Rescue and Diving Support Vessel

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GENERAL

This vessel, designated **ST-238**, is multi purpose Submarine Rescue & Dive Support Vessel designed by Skipsteknisk AS.

The vessel is specially designed for world-wide operation under severe weather conditions, and have excellent maneuverability and station keeping capabilities.

The vessel is built for the following main tasks:

- Submarine rescue
- Saturation diving
- Shallow water Air-diving
- Crane operations

MAIN CHARACTERISTICS

Length over all	109.75m
Length between p.p	99.40m
Breadth moulded	22.00m
Depth to main deck	9.50m
Max draft approx.	7.30m
Deck area aft of hangar	600 m² net

CLASS

DNV+1A1, E0, SF, DYNPOS-AUTR, SPS, CLEAN DESIGN, NAUT-AW, DK(+), HELDK-SH, CRANE, COMF V(3)-C(3), BIS, ERN* 99,99,99,99
IMO res. MSC 266(84) Code of Safety for Special Purpose Ships

SPEED

Max speed at 5.6m draft approx. 16.5 knots

ACCOMMODATION

Accommodation for	100 persons
Single cabins	70
Double cabins	15
• Messroom with self serving area • 2 Lounges • 7 offices & conference room • ROV control room • Hospital • Wardrobe • Gymnasium	

MAIN PROPULSION SYSTEM

- Redundant Diesel electric propulsion plant (Three-split)
- 2x 3000 kW Azimuth thrusters

POWER GENERATING PLANT

- 4x 2250 kWe diesel generator sets, 1800 rpm
- 1x 1700 kWe diesel generator sets, 1800 rpm
- 1x 600 kWe harbour generator set, 1800 rpm

BOW THRUSTERS

- Two FP tunnel thrusters each 1800kW
- One CPP retractable azimuth thruster 1500kW

HELICOPTER DECK

Helideck for Sikorsky S-92

D:20.88m, 12.8t

Rules: CAA UK CAP 437, DNV HELDK-SH

OFFSHORE CRANES

Main crane (AHC)

- 50t @ 15m Subsea lift, single fall, 1500m travel

ROV/MOONPOOL

- Rescue submarine moonpool 8.0 x 5.0m
- Fully enclosed submarine rescue hangar
- 1 x WROV over side
- Dive bell moonpool 3.9m x 3.9m

NAVIGATION AND RADIO COMMUNICATION

Equipment according to GMDSS regulation, Area 3

- Two radars, 3x Gyro Compasses, Seapath 300
- Auto pilot, DGPS
- Two electronic chart systems
- Calling, Command, Tel. system + CCTV

DYNAMIC POSITIONING SYSTEM

- Dynamic positioning system (DYNPOS-AUTR)
- 2 HPR trunks
- 3 DGPS
- Cyscan reference system
- 3 x MRU's

SAFETY EQUIPMENT

- 2 x 50 men life boats
- 2 x 25 men life rafts w/ launching appliances
- 1x 18 men hyperbaric lifeboat
- According to SOLAS for the specified class and number of crew
- 1 x FRC (+1 combined life boat/rescue boat)

SUBMARINE RESCUE SYSTEM

The MRS (Midget Submarine Rescue) is a set of equipment specifically designed to provide rescue service for the DG class Midget Submarines in case of emergency situations. The Midget Submarine Rescue is capable to provide rescue up to 300msw in the standard configuration, and to be operated on a standard NATO Submarine Emergency exit interface if requested.

The system includes DSRV with LARS and DECO system. The DECO system is composed of:

- 2x DDC
- 1x TUP with connection trunk to DSRV
- Control Panel
- Air/Oxygen Storage with piping distribution
- Chiller system

SUBMARINE VENTILATION SYSTEM

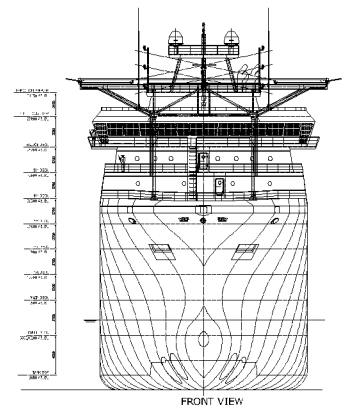
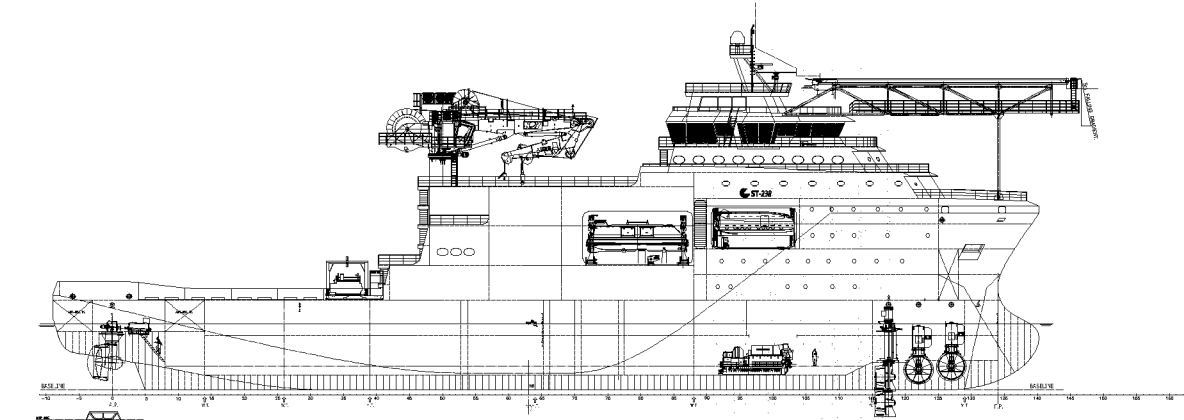
It allows the flushing of the internal atmosphere of the distressed submarine, up to 300 meters' depth, bringing clean and breathable air, with the correct oxygen percentage and temperature control. This system is applicable to the Midget Submarine class and can be dimensioned to fit the requirement for the Conventional Submarines. It is deployed by the vessel crane and connected to the DISSUB by the ROV. The system for Midget Emergency Ventilation is composed of:

- SVS Flat rack, containing Ventilation Capsule and control panel
- SVS Handling Module, containing winch, umbilical cable and HPU
- SVS Container, containing Air compressor and storage

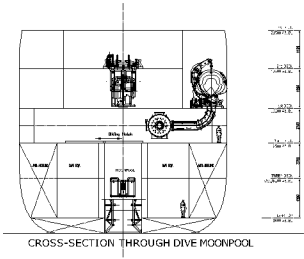
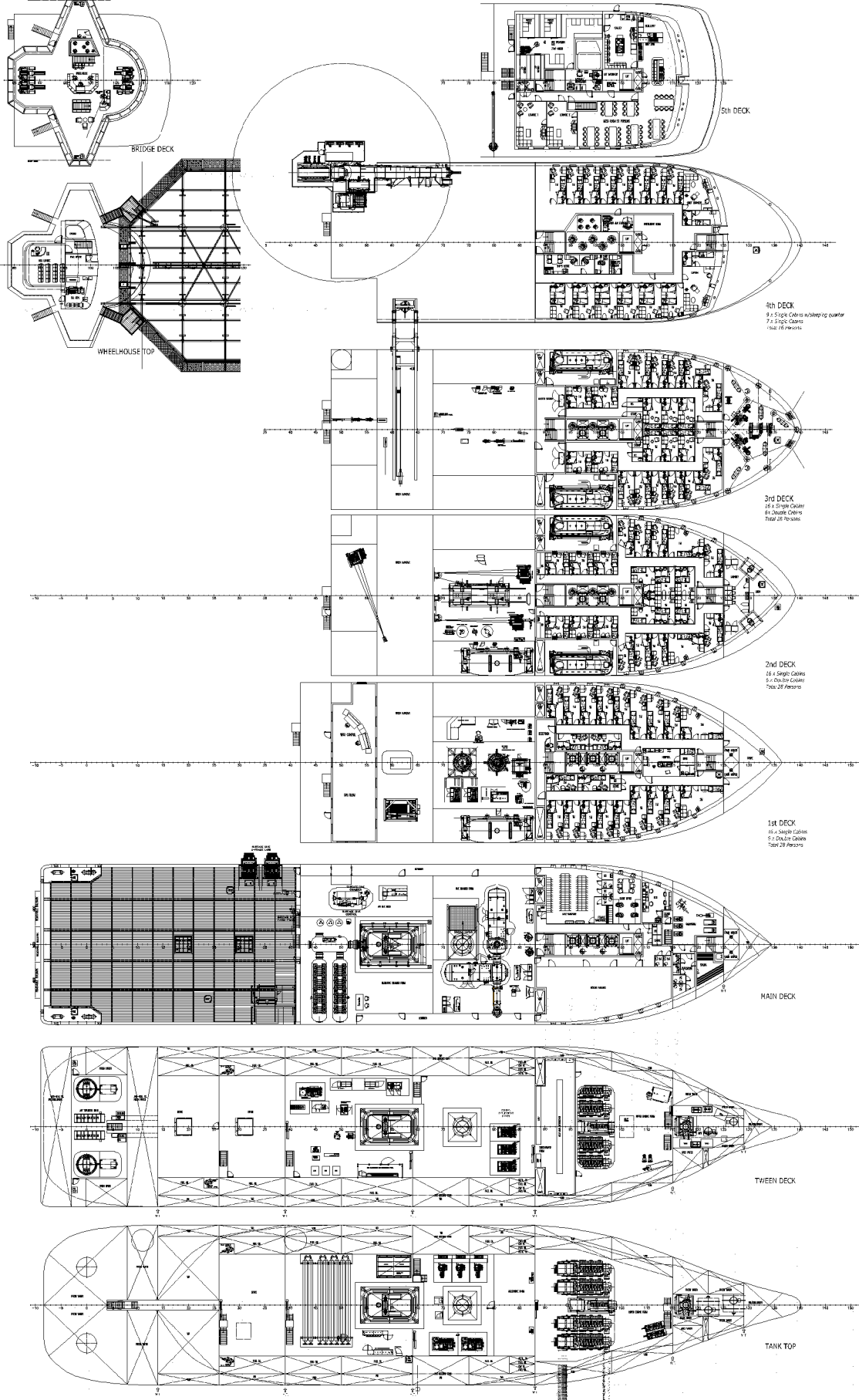
REMOTELY OPERATED VEHICLE

The recovery system will be fitted with a Light Intervention Working ROV having the following features:

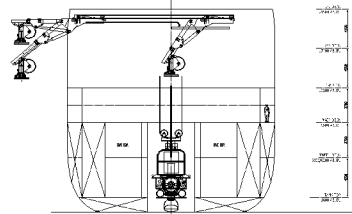
- Powerful and stable in water performance
- ROV dynamic positioning
- GB and 10/100T Ethernet interface
- HDTV interface
- Wide range of "Upgrade kits"
- Easy to maintain and space for further equipment
- Class leading payload
- Ability to operate in shallow water at high ambient temperatures



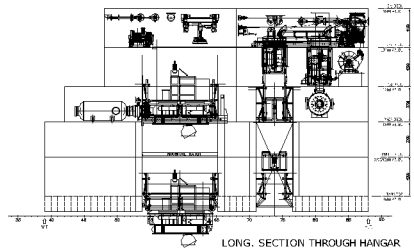
FRONT VIEW



CROSS-SECTION THROUGH DIVE MOONPOOL



CROSS-SECTION THROUGH SUBMARINE MOONPOOL



LONG SECTION THROUGH HANGAR

ST-238

ST-design ®

GENUINE SHIP DESIGN - *freedom to create*

HAVNEVIK



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