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SCAN TO VIEW

U-Boat Worx CE-5 > **CE5.25**

Price	**€900,000 ex. VAT**
Location	Breda - Netherlands
Year	2015
LOA	16’9” / 5.11m
Beam	9’10” / 2.99m
Displacement	7,345kg / 16,193lb
Hull Material	Acrylic & Steel
Drive System	Technadyne RBL-X Series Thrusters
Builder	U-Boat Worx
Accommodation	5 Passengers (Pilot + 4 Guests)

BROKER'S COMMENTS

The U-Boat Worx CE-5 represents one of the most compelling and genuinely rare opportunities in the specialist submersible market today. Built in 2015 by U-Boat Worx the world's leading private submersible manufacturer and DNV-classed throughout her life, this five-person observation submersible is offered as a complete, fully operational package ready for immediate deployment. With a maximum operating depth of 200 metres, an endurance of up to 16 hours and life support sufficient for 96 hours, CE5.25 is a serious professional-grade vessel, not a leisure toy.

The primary use case for a vessel of this type is luxury superyacht deployment, high-end underwater tourism, marine research and documentary filmmaking. For superyacht owners, the CE-5 is the definitive 'toy' offering guests an unparalleled 360° observation experience to 200 metres, something no other onboard amenity can match. For tourism operators, the commercial potential is significant: a certified five-person submersible operating from a resort, liveaboard or cruise platform can command substantial per-dive revenues, with operational costs that are well understood and manageable given the vessel's electric propulsion and mature support infrastructure.

From a regulatory standpoint, prospective buyers should be aware that operating a classed submersible requires ongoing compliance with DNV rules, including periodic surveys (annual, intermediate and special). The vessel is currently registered under the Republic of the Marshall Islands flag, and any change of flag or operator will require notification to DNV and the relevant flag state authority. Commercial passenger-carrying operations will additionally require compliance with local maritime authority regulations in each operating jurisdiction, typically covering operator licensing, pilot certification, safety management systems and passenger liability insurance. U-Boat Worx offer a comprehensive pilot training programme, and buyers are strongly advised to budget for trained and certified pilots as a condition of commercial operation.

The ideal next owner is an experienced superyacht owner looking to elevate their vessel's guest experience, a high-end resort or liveaboard operator seeking a commercially deployable attraction, or a marine research institution requiring a reliable, DNV-classed observation platform. The vessel would equally suit a specialist charter operator or an investor looking to enter the growing luxury submarine tourism sector a market that continues to expand rapidly in destinations such as the Maldives, Caribbean, Red Sea and Indo-Pacific. This is represents outstanding value, including the comprehensive spares and support equipment package.

Explore more photos here: https://www.berthoninternational.com/yacht-sales-brokerage/yachts-for-sale/u-boat-worx-ce-5-ce5.25/

CONSTRUCTION

The U-Boat Worx CE-5 is a DNV-classed, five-person tourist submersible designed for observation and underwater exploration.

The submersible is supplied as a complete operational package including surface support equipment, life support systems, navigation and communications, emergency equipment and a comprehensive spare parts inventory.

Classification & Certification:

- Classification Society: DNV (Det Norske Veritas).
- CE Mark - CE-5 Submersible.
- Flag / Registry - Republic of the Marshall Islands.
- Official Record of Auxiliary Vessels & Other Appurtenances.

- Survey Statement - DNV.
- Classification Certificate - DNV

Hull & Superstructure Construction:

- Acrylic & Steel.

MACHINERY

Drive System:

- Thruster model - Technadyne RBL-X (repaired/refurbished units available as spares). Thruster units are Technadyne RBL-X Series, with motor control units (MCUs) supplied by Tecnadyne. The system provides full six-degrees-of-freedom manoeuvrability.
- The CE-5 is driven by a fully electric thruster system supplied by U-Boat Worx, comprising both horizontal and vertical propellers.
- Horizontal propellers - U-Boat Worx / Artisan supplier.
- Vertical propellers - U-Boat Worx / Artisan supplier.
- Motor Control Units (MCUs) - Tecnadyne, refurbished.
- MANTA controller - U-Boat Worx.
- Marlin controller with remote control transmitter: U-Boat Worx.
- Hub bearings - Vesconate / Torlon material.
- Thruster retainer retrofit kit included.

Hydraulic System:

- The vessel is equipped with a hydraulic system serving the manipulator arm and other actuated components. The system includes a hydraulic pump, valve pack, Haskell oxygen booster pump and associated pipework.
- Hydraulic fluid - Mineral-based hydraulic oil (Perlu-S grade).
- Hydraulic test and refill kit included.
- Pipe bending and tube cutting kit included.
- Stainless seamless HP tubing in multiple diameters.
- ALOK compression fittings throughout.

Maintenance & Performance:

- Cruising speed – 3 knots (surface and submerged).
- Maximum speed – 3 knots (electric thruster system, no RPM rating).
- Power consumption – electric propulsion, zero fuel consumption. Total battery capacity 43.2 kWh (31.2 kWh propulsion + 12 kWh house systems).
- Operational endurance – up to 16 hours at 3 knots. Recharge time 4–6 hours (optimal cycle).

ELECTRICAL SYSTEMS

Voltage Systems:

- The submersible operates on a high-voltage DC system with 120V and 330V charging circuits.

Battery Banks:

- 4 × 130V DC propulsion battery packs (31.2 kWh total) and 4 × 24V DC house system battery packs (12 kWh total). Total capacity: 43.2 kWh high-capacity lithium-ion. E
- emergency battery: Victron Energy BV (2 units, class-relevant) providing 96 hours of critical systems backup.

Battery Chargers:

- Delta Elektronika SM series rack-mount power supplies (120V DC and 330V DC circuits). Charging time 4–6 hours for full charge.
- Emergency battery charger - Delta Elektronika ES series. Emergency 12V charging cable also included.
- 120V DC charging cable (HP ILM-type connectors).
- 330V DC charging cable (HP ILM-type connectors).

Shore Power:

- Shore power input via dedicated sub charging unit 220V AC single phase or 3-phase compatible.
- Dedicated charging cables for 120V DC propulsion packs and 330V DC system.
- Sub charging unit on dedicated pallet.
- Shore power supply - rack-mount Delta Elektronika SM series (multiple units).
- Shore-side charging is via Delta Elektronika power supplies with dedicated cables and connectors.

Control & Monitoring:

- PLC module - IBI LA IS FPA-C (Siemens-compatible).
- UI touchscreen - Panel PC with SSD, 19" touch display.
- Pressure sensors - ATMS range (3 units covering 1 bar, 5 bar, 10 NHbar).
- Proximity switches - Maha proximity switch (3 units).
- Micro-switch SPDT with flying lead.
- 3-position stay-put selector switches (yellow, 240V on/off).
- Freon sensor (aircon gas monitor) - Consilium / U-Boat Worx.
- GPS sensor - Navilock / U-Boat Worx.

Cable & Connector Systems:

- A comprehensive cable and connector inventory is carried, including Harting Han range (C, D, Q, Eco-B series), Seatronics SubConn, Burton dummy connectors, and DLOC locking sleeves.
- Multiple cable specifications are stocked covering power, signal and hybrid configurations.

NAVIGATION & COMMUNICATION EQUIPMENT

- USBL system - Evologics SCR transceiver, 17–34 kHz.
- USBL pole - U-Boat Worx.
- USBL mounting block - U-Boat Worx (UBW-E).
- USBL topside cable - 35m.
- USBL replacement transducer with impulse connector included.

Acoustic Communications (UWT):

- Surface station - Ocean Technology Systems STX-SB (Aquacome), refurbished.
- STX-SB transducer - 8–16 kHz.
- STX-SB handheld microphone (HHM).
- STX-SB rechargeable batteries (2 units).
- STX-SB smart battery charger (EU).
- Internal UWT headset.
- UWT topside headset.

Sonar & Pinger:

- Multi-frequency pinger - JW Fishers MFG Inc, JWF.
- Pinger receiver unit - JW Fishers (boat deployment, class-relevant).

- Pinger buoyancy collar.
- Pinger setup kit.
- AA lithium-ion batteries for pinger.

Surface Communication:

- VHF handheld radios - ICOM (M/DD DSC), 2 units.
- Weather meter / barometer - Kestrel / U-Boat Worx.
- Kestrel wind/weather meter included.

Surface Officer (SO) Equipment:

- Surface Officer communication unit.
- SO Officer logbook - U-Boat Worx.
- Stopwatch - Fastime / U-Boat Worx.
- Apple iPad (Air, 64GB WiFi) with cover — 2 units.
- iPad charging cable (Lightning to USB).
- Clipboard cases.
- Dive flag.

ON BOARD EQUIPMENT

Survey & Camera Equipment:

- GoPro 9 Black action camera.
- DIGIPOWER Re-Fuel battery pack.
- FlyMount Stativa adapter (action camera on rail mount).
- SanDisk 1TB MicroSDXC Extreme Pro card.
- T-Housing aluminium housing.
- T-Housing adapter.
- Camera head jubilee clips.
- Camera bracket.
- Laptop mount for camera system.

Ventilation:

- External portable AC unit - Enzo Olimpia Splendid — BTU max, 9m² (We Supply Yachts).

Workshop & Tools:

- Wera Click Torque A set.
- Click torque C push/L adjustable torque wrench 40–200 Nm.
- Tube benders - 6mm, 8mm, 10mm (pairs — submarine store and bending kit rack).
- Tube cutter 3–28mm SS.
- Countersinker set (3 pieces).
- Hex head Allen wrench drill bit set.
- Calipers 0.01mm resolution.
- Stanley FatMax professional tool case (2 units).
- RAKO stackable warehouse bins.
- Dewalt DCB XR Li-Ion 18V/4Ah battery and charger.
- Dewalt DC VNX-J 18V vacuum cleaner (wet/dry).
- LED inspection lights - Brennenstuhl HL (2 units).
- Head torch - LED Lenser SEO.
- Tape measure.
- O-ring pick.
- Menaluxx DM micro kit for vacuum.
- Acrylic polish sets (2).

- Innoprotect B spray / Innoshine B spray.
- Molykote medium lubricant.
- Aquashield grease 4oz.
- Silicon spray 400ml.
- Loctite SI (ml).
- Contact cleaner aerosol spray 200ml.
- Self-amalgamating tape black (2 locations).
- Sofnafilm CD-grade 1kg.
- Spray bottles (multiple).
- Blue cleaning cloth roll.
- Blue microfibre cloths.
- Scotch-Brite general purpose hand pad.
- Cable ties — black, cold-weather resistant (multiple sizes).
- Ziplock bags (multiple sizes)
- Circli sets (14pcs, M8 external SS ST).
- Painter's brushes (Cola artist brushes).
- Hammrite metal paint, black high gloss 500ml (2 units).
- Gardena retractable 15m water hose.
- Slim Jim waste bin.
- Human weighing scale.
- Krooon Oil coolant SP pink 5L.
- VARTA CR2 professional lithium battery.
- Varta Industrial PRO AAA battery.
- Varta LR44 battery.
- Duracell Ultra Power AA alkaline 9V.
- Spare Parts Inventory - Available on Request.

GENERAL EQUIPMENT

Lifting & Handling

- LASHING SING plates (multiple).
- Cam buckle straps 5m.
- Polypropylene HR line 10m.
- Dyneema rope 5mm × 50m.
- Braid line White/Blue 50m.

LIFE SUPPORT SYSTEMS

Oxygen Supply:

- Oxygen is supplied from multiple stainless-steel cylinder banks via MedOx Medical Oxygen systems with flow switches and stainless gauges (Wega Med). An oxygen booster pump (Haskell MSB) is provided for cylinder replenishment.
- Main O_2 cylinders - 3 × U-Boat Worx white oxygen sub tanks (BKS serial series), size L, oxygen-clean.
- Medical oxygen banks - 3 × MedOx Medical Oxygen Cylinders, L/200 Bar (UTCL/WUA serials).
- Emergency HP air feed tank - Luxfer / U-Boat Worx, 12L, class-relevant.
- HP air cylinders - 6 × U-Boat Worx (4 × 12L main + 2 × 12L reserve), port and starboard positions.
- Oxygen self-rescuers - Draeger OxyK (refer to Life Support Log).
- Oxygen booster pump - Haskell MSB.
- O_2 regulators, needle valves, ball valves and gauges included.
- DIN HP air fill adapters and DIN bend plug with bleed.

- Airpress retractable HP air hose (5m).

CO_2 Scrubbing:

- Carbon dioxide is absorbed by a Sofnolime-based scrubber system using CO_2 absorbent blankets (lithium hydroxide sheets) and a James Fisher & Sons BHV CO_2 scrubber cartridge. Sufficient Sofnolime is carried on two separate pallets.
- Sofnolime - CD-grade, two pallet consignments.
- CO_2 absorbent blankets - Micropore / U-Boat Worx, refer to Life Support Equipment Log.
- Scrubber sheet hangers included.
- CO_2 Scrubber unit - James Fisher & Sons BHV.

Atmosphere Monitoring:

- Draeger Air Monitor X-am - 2 × primary units (sensors CO_2/H_2 class-relevant).
- 1 × spare Draeger X-am unit.
- Draeger OxyK training mask.
- Draeger battery holder (ABT type).

SAFETY EQUIPMENT

Pyrotechnics & Signalling:

- Hand flares — red - Comet brand (multiple units, 2 locations).
- Orange hand smoke signals - Comet brand (multiple units, 2 locations).
- Rocket parachute flares - Comet brand (multiple units, 2 locations).
- Ikaros coastal flare pack FLR (2 packs).
- Watertight containers for flares (2).
- 24-hour glow sticks (multiple, 2 locations).

Emergency Lifting & Recovery:

- 1T subsea airlift bags - Unique Seaflex Buoyancy Units, TALB type (2 units with serial numbers).
- Emergency lifting hook with Dyneema line (diameter as specified).
- HP emergency lifting tank - Luxfer dive bottle, 12L, class-relevant.
- Rope assembly port.
- Towing bridle.
- Tag lines.
- Sub tow line - U-Boat Worx.
- WICHARD snap shackle with swivel eye 6mm.
- HMB bow shackle T with securing pin.
- Cable grip LMG-I type.
- Carabiners (multiple).
- Yale cable grip (for tow cables).
- Skylotec fall arresters (2 units).
- 1m, 2m and 3m round sling lifting strops (multiple).
- Climbing hooks.
- 2T lifting strops.

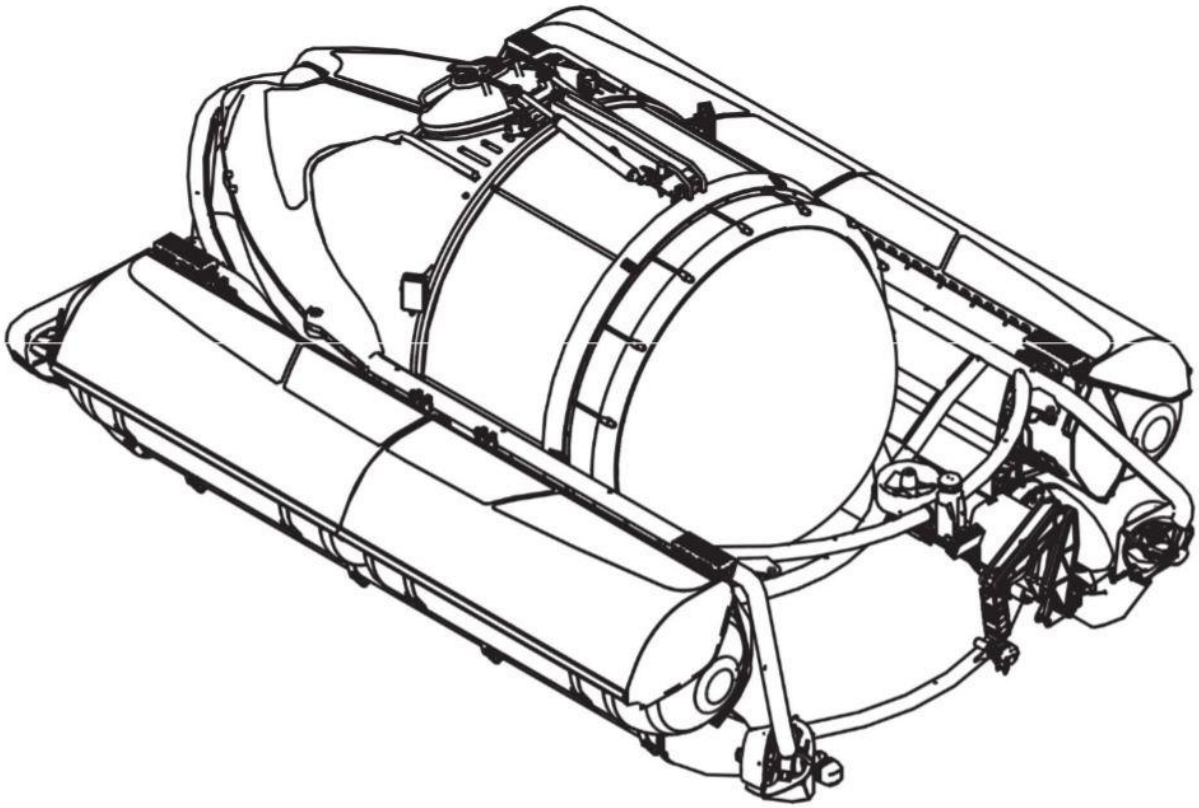
Emergency Provisions:

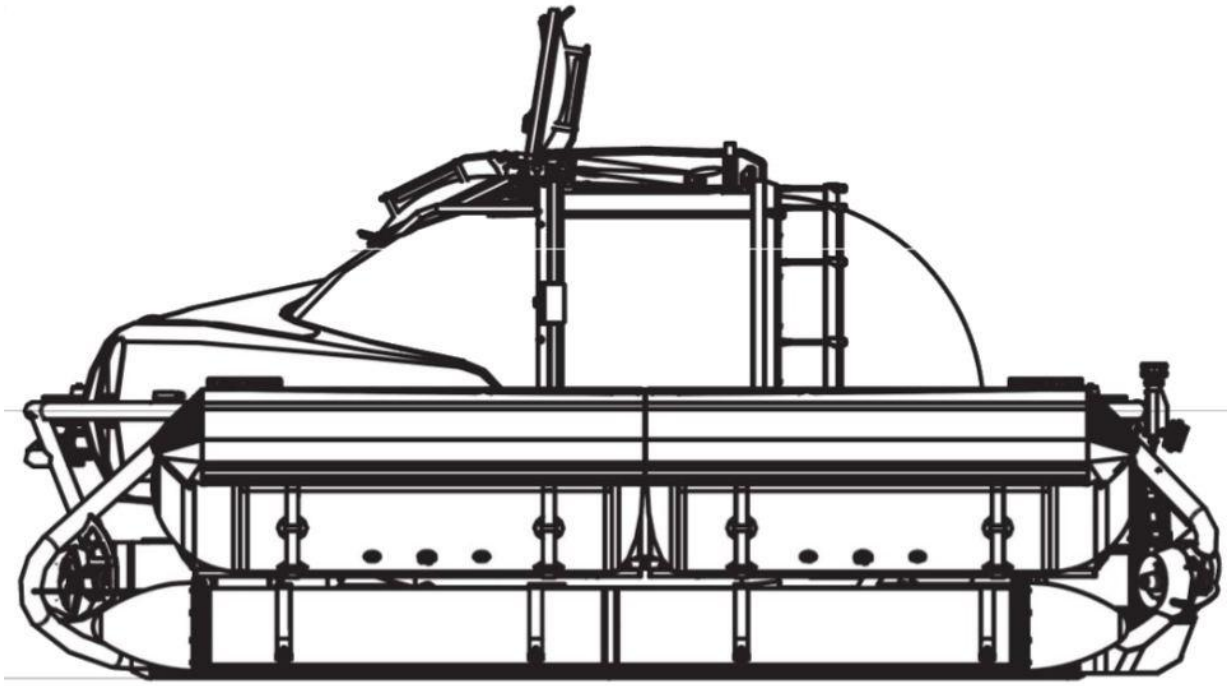
- Emergency food packs - 7 units (CE-FO serial series), class-relevant.
- Emergency water packs - refer to Life Support & Equipment Log, class-relevant.
- Life jackets - 5 units (serials recorded), class-relevant.
- Safety dive knife.
- First aid kits Cat-C - 2 units.
- Mini hacksaw and Wurth hacksaw 300mm.

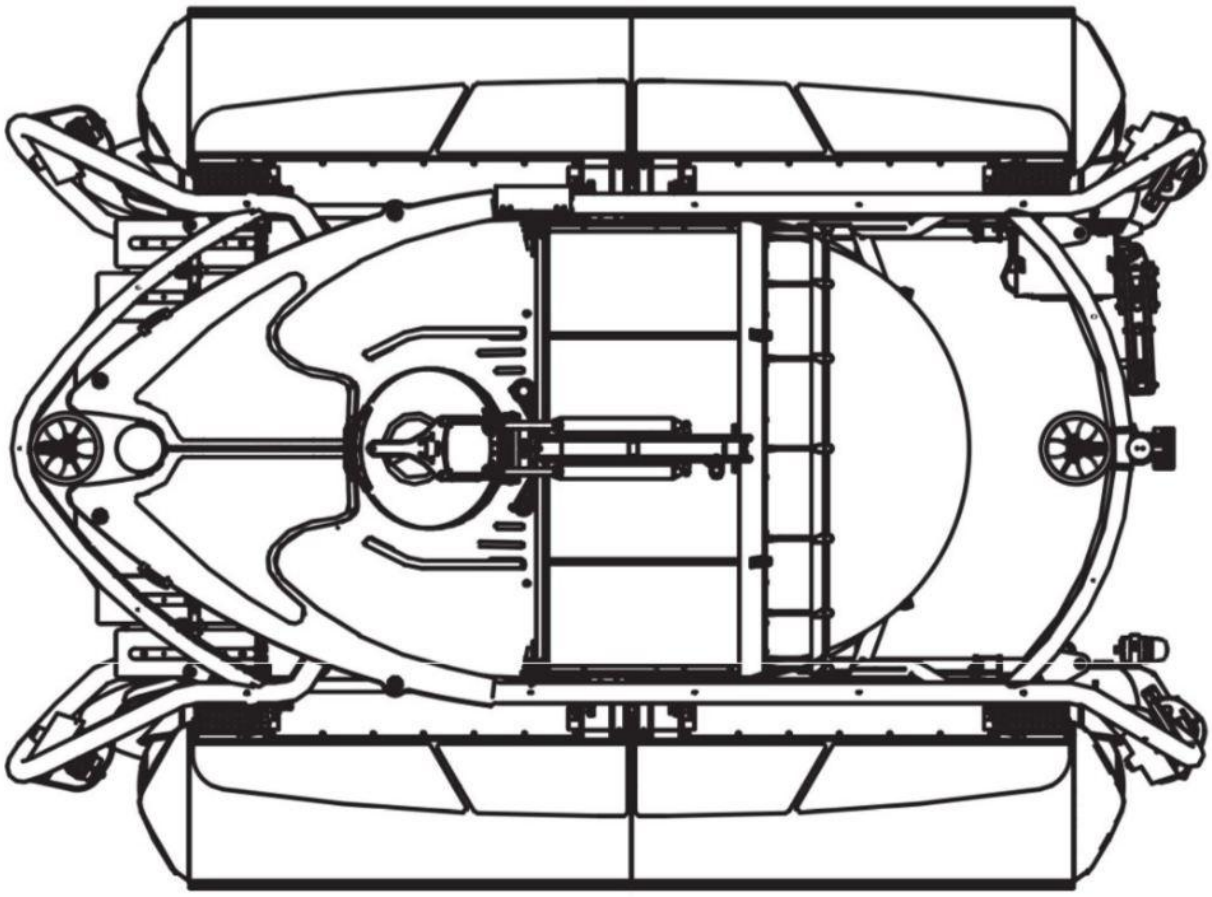
- Bolt cutters 600mm (2 sets).

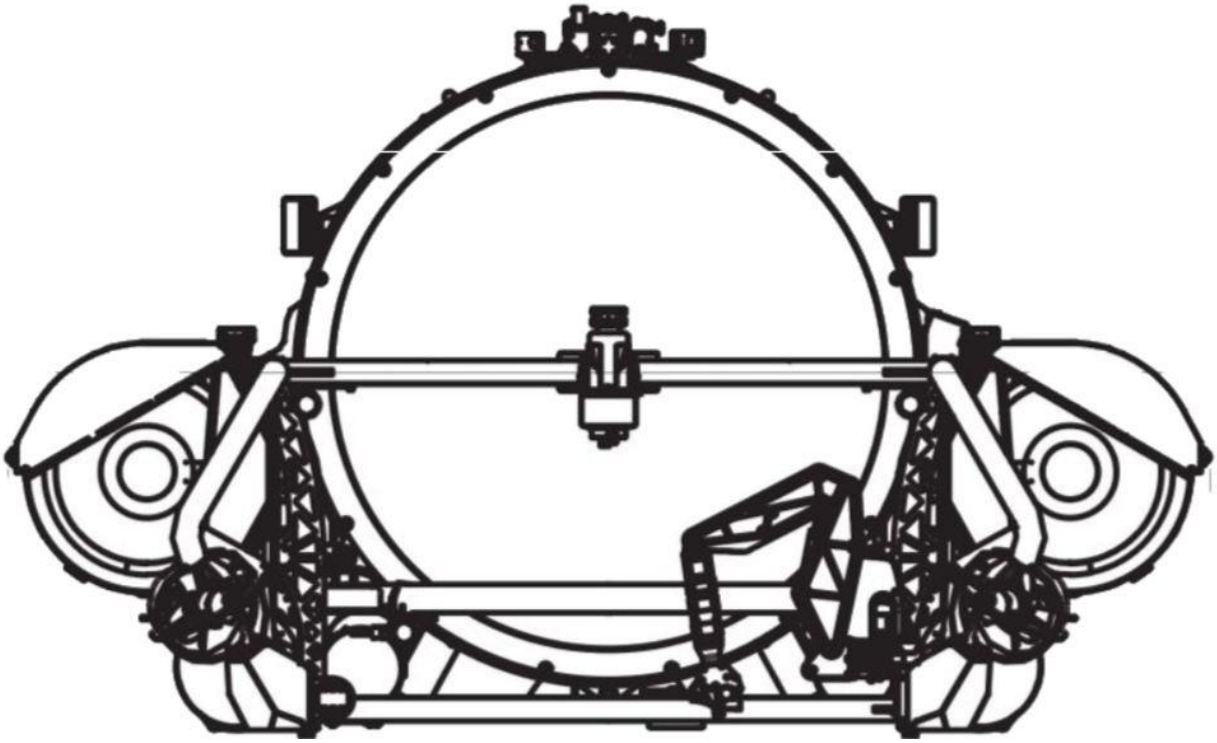
Fire-Fighting Equipment:

- Fire extinguisher - Sea Fire NFG (extinguishing agent Novec FK-5-1-12), class-relevant.









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