

CYCLOPS 1

5-Person Submersible | 500 meters



OceanGate®

425.595.5013
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Manned
submersible
services for
industry,
research and
exploration.

Cyclops 1 is a research class submersible capable of taking 5 crew to a depth of 500 meters for site surveys and inspection, research and data collection, film and media production and deep sea testing of hardware and software..



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Manned submersible services for industry, research and exploration.

SURVEY AND INSPECTION

RESEARCH AND DATA COLLECTION

FILM AND MEDIA PRODUCTION

DEEP SEA TESTING

CYCLOPS 1: MANNED SUBMERSIBLE

Cyclops 1 is a research class submersible capable of taking five people to depths of 500 meters (1,640 feet) for site survey and inspection, research and data collection, film and media production, and deep sea testing of hardware and software. *Cyclops 1* is ideally suited for direct subsea monitoring, inspection and exploration.

DIRECT MONITORING, INSPECTION AND EXPLORATION

Cyclops 1 offers excellent undersea views through a 1.45-meter (57-inch) acrylic dome, which provides a wide, nearly 180-degree field of view with very little distortion. In addition, *Cyclops 1* is outfitted with state-of-the-art illumination systems, internally and externally mounted high-definition video and photographic equipment. The interior provides ample space for additional monitoring, inspection, and data collection equipment.

MOBILE SUBSEA LAUNCH AND RECOVERY SYSTEM (MS.LARS)

Operated similarly to a ship dry dock, *Ms.Lars* is used to launch and recover manned submersibles by flooding its flotation tanks with water for a controlled descent to a depths of 5 meters to avoid any surface turbulence. Once submerged, *Ms.Lars* uses a patented motion-dampening flotation system to remain coupled to the surface yet still provide a stable underwater platform from which our manned submersibles lift off of and return to after each dive. At the conclusion of each dive, the sub lands on the submerged *Ms.Lars* and the entire system is brought to the surface in approximately two minutes by filling the ballast tanks with air.

Ms.Lars is modular and easily transported using standard over-highway truck and trailer combinations. It can be cost-effectively deployed at sea because it does not require a large ship with a man-rated crane or A-frame to launch and recover the submersibles. This allows us to work in remote areas using smaller, locally available commercial ships at a much lower cost.

BENEFITS

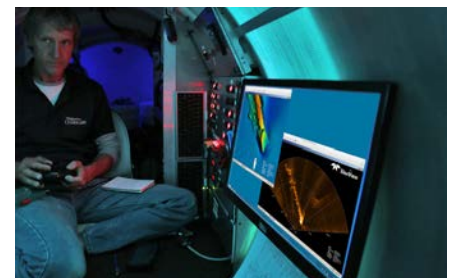
- 5-person occupancy allows multidisciplinary teams to multi-task and collaborate during dives
- Paired with OceanGate's Mobile Subsea Launch and Recovery System (Ms. Lars) the integrated system is fully mobile and is efficiently transported nearly anywhere in the world to be operated from nearly any ship of opportunity.
- The operational depth of 500 meters (1,640 feet) provides access to virtually all of the world's continental shelves
- External ports and mounting positions can accommodate auxiliary sampling and survey equipment, including manipulator arm and section sampler.

SPECIFICATIONS

| | |
|---------------------|---|
| Seating | 5 persons (1 pilot + 4 crew) |
| Depth | 500 meters (1,640 feet) |
| Dimensions | 850 cm x 165 cm x 265 cm (28 ft x 5.4 ft x 8.7 ft) |
| Payload | 1,043 kg (2,300 lbs) |
| Weight | 8,437 kg (18,600 lbs) |
| Speed | 3 knots |
| Propulsion | Four Innerspace electric thrusters: 2 vertical, 2 horizontal. |
| Life Support | Standard: 8 hours for a crew of 5 Emergency: 96 hours for a crew of 5 |
| Navigation | iXblue PHINS Inertial Navigation System Teledyne BlueView 2D and 3D sonar |
| Lighting | Two Teledyne Bowtech LED, 40,000 lumens total output |
| Cameras | Internal: Canon 5D Mark III External: multiple HD for image capture and navigation |
| Other | Laser scaler |



Mission specialists onboard *Cyclops 1*.



Pilot scans *Andrea Doria* shipwreck.