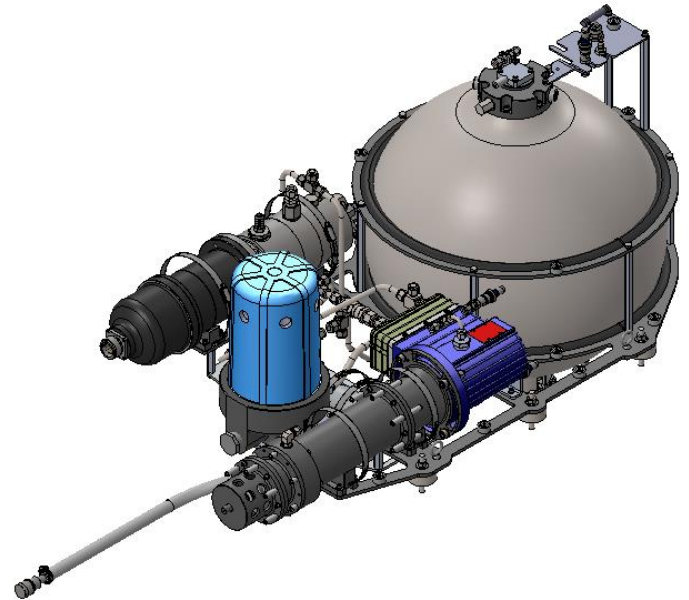


ISE's Variable Ballast System provides a unique capability for underwater vehicles: the ability to vary buoyancy by up to 60 kg at depths of up to 5000 meters. An innovative 3D printed titanium pressure sphere minimizes system weight and complexity while two custom made pump assemblies provide the power needed to operate at extreme depths. This system utilizes seawater as the working fluid, minimizing environmental impact in the event of a leak or spill.

Specifications:

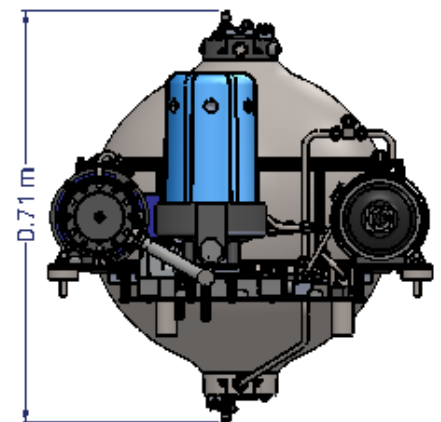
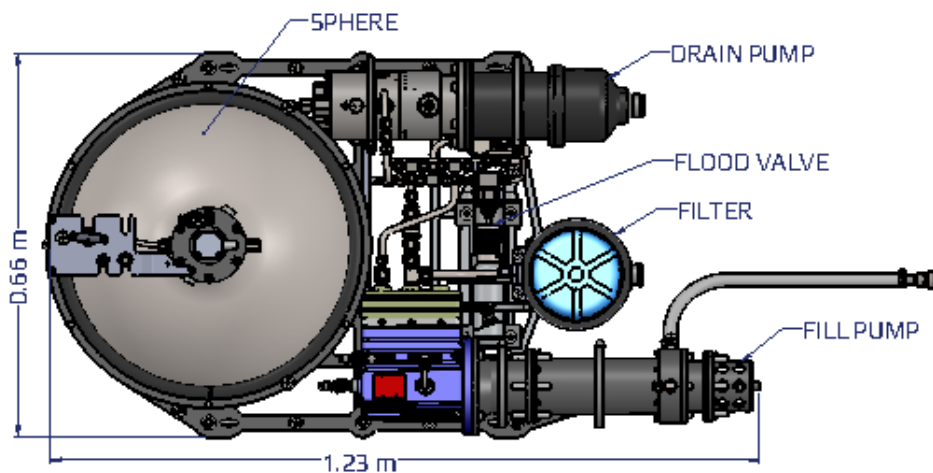
Depth rating ¹	5000 m
Working fluid	Seawater
Working volume	60 L
Electrical power	48 VDC, 1500 W
Inlet filter	Pleated polyester, 20 micron
Feedback	Sphere volume, motor temp, motor speed, motor current, water ingress alarm
Weight (dry, empty)	135 kg
Weight (wet, empty)	40 kg

¹ Tested to 5500 msw.



Applications:

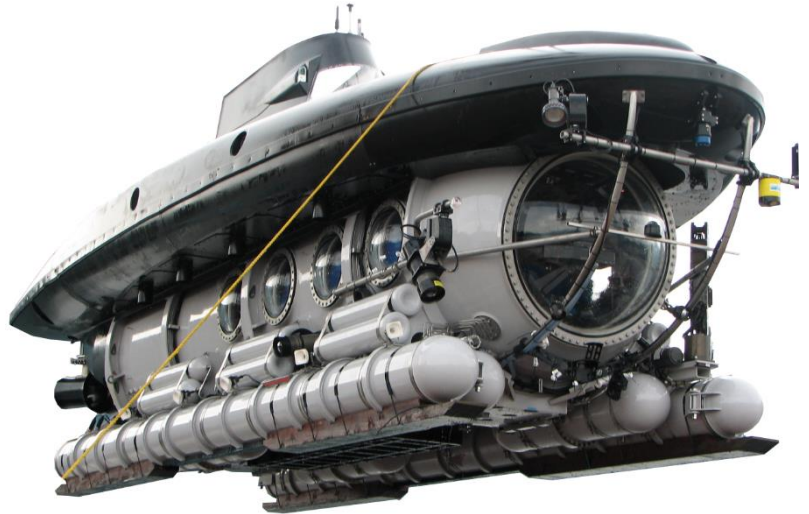
- AUVs
- ROVs
- Manned submersibles
- Buoys



International Submarine Engineering is a world leader in the design and integration of underwater vehicles and terrestrial robotics. ISE has evolved a unique skill set for turning concepts into solutions. Integrating complex projects utilizes the company's resources from industrial design, real-time software engineering and embedded systems to prototyping, testing, and quality control.



*HYSYUB family of work-class ROVs
50 – 250 hp / 1000 – 6000 m depth
ratings*



Pagoo – 10 passenger manned submersible



*Aurora Active-Towfish:
Improved data quality compared with
traditional static towed sonar platforms*



*Explorer family of AUVs
3000 to 6000 m
operational depths*

Have a unique and challenging application?
We would love to hear about it.
Contact us now to customize a vehicle to your mission.