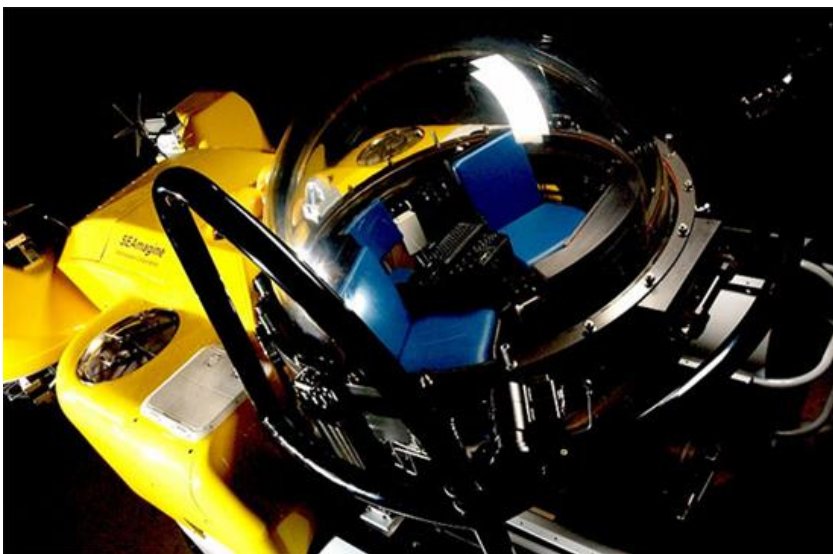


TRIUMPH 3 PERSON MODEL

200m to 500m Depth Rated, ABS Classed



The TRIUMPH is a robust, safe, and practical 3 person (1 pilot + 2 Passenger) submersible that offers excellent field of views to the occupants. The cabin opens as a clamshell and allows for easy entry and exit.

In surface mode, the patented flotation system permits the craft to float high above the water line with a high freeboard. When submerged, the Triumph is positively buoyant at all times and if the thrusters are stopped the craft will always gently rise back to the surface. Underwater, the submersible remains horizontal at all times and does not roll nor pitch.

At the end of the dive the flotation bladders are re-inflated such that the craft floats back on the water's surface at which point the cabin can be opened.



TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS

Designer / Manufacturer	SEAmagine Hydrospace Corporation
Model	TRIUMPH
Number of Occupants	2 (1 Pilot + 1 Passenger)
Maximum Operating Depth	150m – 500m (650ft – 1640ft)
Classification	American Bureau of Shipping (ABS)
Additional Approval	Cayman Island Shipping Registry

DIMENSIONS & WEIGHT

Length	5.33 m (17.5 ft)
Width	3.11 m (10.2 ft)
Height	3.05 m (10.0 ft)
Dry Weight	6282Kg (13,850 lbs)
Cabin Payload	340 Kg (750 lbs)
Hoist Arrangement	Single Point Hoist

PROPULSION

Standard Maximum Speed	3 Knots
Propulsion Type	Brushless DC Electric
Standard Horizontal Propulsion	4 X Thrusters
Lateral Propulsion	2 X Thrusters
Vertical Propulsion	2 X Thrusters
Mission Time;	6 Hours

LIFE SUPPORT SYSTEM

Mission Time	6 Hours
Reserve Capacity	96 Hours
Oxygen Monitoring	Dual O2 Sensors
CO2 Monitoring	Dual CO2 Sensors
Oxygen Delivery System	Flow Control
Emergency Breathing System	Standalone Independent Units

POWER CAPACITY

Battery Type	AGM Lead Acid
Total Power Capacity	42 KWH
Propulsion Power Capacity	34 KWH
Instrumentation Power Capacity	8 KWH
Charging Time	5 – 7 Hours

SAFE & COMFORTABLE BOARDING

The TRIUMPH acrylic cabin is a clam shell design that fully opens in half offering a 1.53m (5ft) hatch for comfortable boarding and exit. The submersible is launched unmanned and floats high above the water line when on surface. The external joystick system allows the crew to drive the submersible at surface without requiring the cabin to be opened until it is securely docked to the swim deck or support topside tender. Once launched, the submersible can perform multiple dives in a day without the need to hoist it back on deck. The submersible's cabin life support system is a large rebreather system with scrubbers removing the CO2 and oxygen being replenished that maintains a 1 atmosphere pressure inside the cabin at all times with normal breathing air levels. The cabin's clam shell design is robust and it can be opened from the outside as well as from the inside.



POWERFUL PROPULSION, HIGH PAYLOAD RECOVERY, & HIGH MANEUVERABILITY

The TRIUMPH maintains positive buoyancy at all times underwater and the vertical propulsion is what keeps the vessel underwater. If the vertical propulsion is stopped the submersible will always gently rise back to surface. The TRIUMPH can readily hover at a specific location and maintain accurate positioning ideal for filming and underwater intervention work. The TRIUMPH is equipped with lateral thrusters that allow it to move sideways which enhances the maneuverability. The submersible has considerable spare buoyancy ballast that permits high payload recovery. The TRIUMPH has great field of views in all directions from inside the cabin including directly below which is important for up close observation filming, or handling a robotic manipulator.



TECHNICAL SPECIFICATIONS (Continued)

SAFETY SYSTEMS

Emergency Drop Weight System	YES
Fire Extinguisher	YES
Emergency Buoy Release System	YES
Constant Positive Buoyancy	YES
Water Leak Detection System	YES
Automatic Cabin Power Change Over	YES
Life Support Alarm Systems	YES
Ground Leak Detection System	YES
Stalled Motor Over Current Protection	YES
Automatic Emergency Strobe Light System	YES
Boarding Hand Rails	YES

COMFORT

Cooling System	YES
Seats for Passengers	Leather
Internal Lighting	YES

INCLUDED TOPSIDE SUPPORT EQUIPMENT

Wireless Underwater Communication System	YES
Topside Submersible GPS Tracking System	YES
Topside Depth Tracking of Submersible	YES
Wireless Underwater Text Messaging	Optional

INCLUDED WITH SUBMERSIBLE

- Full ABS (American Bureau of Shipping) Classification
- Underwater Communication System for Submersible & Topside
- Topside USBL (Ultra Short Baseline) Tracking Hand Carry Console
- Dual Frequency Forward Looking Sonar
- 2 X LED Flood Lights + 6 X LED Spot Lights
- Doppler Velocity Log (DVL) Navigation on Submersible
- USBL GPS Navigation Software on Submersible
- External Wet Joystick for Surface Handling
- Submersible Battery Charger
- Color Customized to Client's Request

OPTIONAL ADDITIONAL EQUIPMENT

- Robotic Manipulators Arms 5 to 7 Axis Models
- Underwater HD Video Systems with Pan & Tilt Units
- Fly-Out Mini ROV System with HD Camera, Cutter, & Grabber
- SEAmagine 360 Degree Underwater HD Camera System
- ...More Additional Subsea Equipment Available Upon request