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

PROPELLATION
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

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.
POWEROUL 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 submarine 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 TOPSDE 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