



Fact Sheet

Triton 36,000 Full Ocean Depth Submersible The World's Deepest Diving Multi-Passenger Submersible

The Submersible

The world's most advanced submarine company, Triton Subs, and high-pressure glass fabricator Rayotek Scientific, have joined forces to design a full ocean depth submersible that will revolutionize man's relationship with the deep ocean.

With a planned descent rate of 500 feet per minute, the deepest spot in the ocean, at 35,800 ft., can be reached in approximately 75 minutes.

The Triton 36,000 F.O.D. hull utilizes Rayotek's patented manufacturing process and proprietary technologies to produce a sphere of high-strength specialty glass. Glass has been successfully used in deep submergence for more than 40 years and some spheres have been rated to almost 30,000 ft. (9,000 meters).

Rayotek's proprietary technology is capable of overcoming previous manufacturing limitations and producing perfect spheres of sufficient diameter to accommodate three occupants. By incorporating no metallic elements or through-hull penetrations in the pressure boundary, the design takes advantage of the fact that up to a very high limit, glass becomes stronger with greater compression.

The Triton is designed for both scientific and commercial work, and requires a minimum of support equipment and personnel.

All life support is internal to the pressure hull, and the sub will be controlled through a system of touch screen controls and information displays with commands communicated by fiber optic systems that transmit light through the glass hull. The glass is protected from point impact by internal and external acrylic sheaths.

SPECIFICATIONS:

Length: 14.8 ft.
Width: 9.8 ft.
Height: 8.7 ft.
Weight: 24250 lbs.

Glass Hull – internal diameter: 70.9 in.
Glass Hull – external diameter: 78.8 in.
Diving Depth: 36,000 ft.

Passengers: 3
Controls: PLC-based control and monitoring
with touch-screen interface

LIFE SUPPORT:
Full Emergency Kit
Fully Jettisonable Personnel Sphere
96 hours of atmospheric air

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