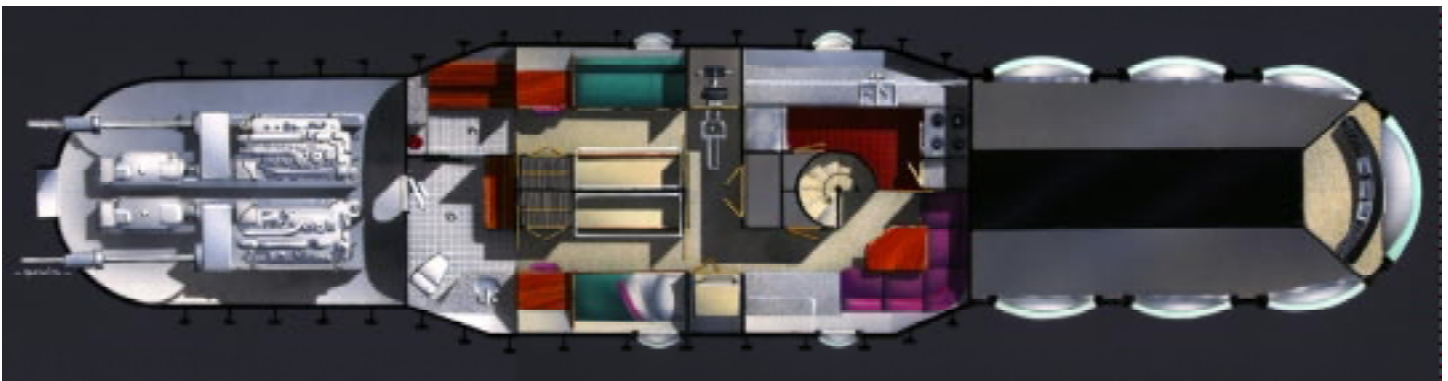
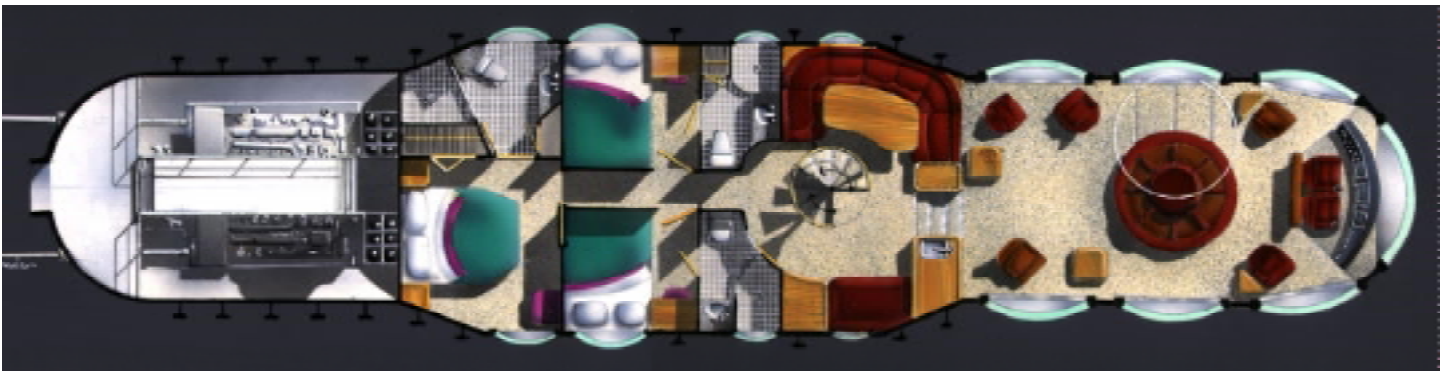
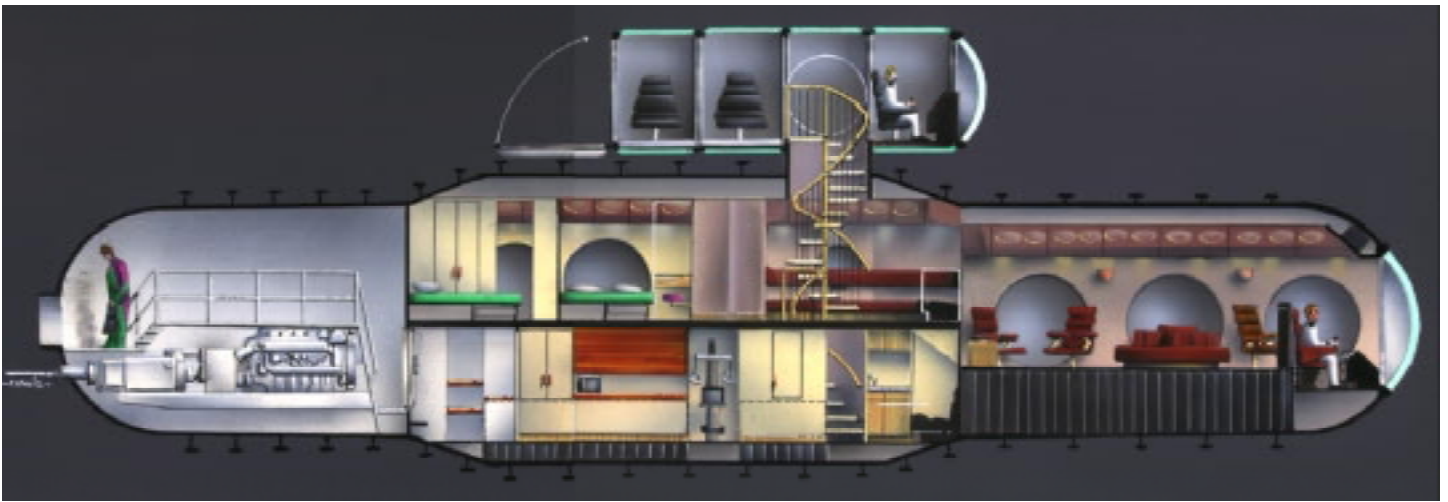
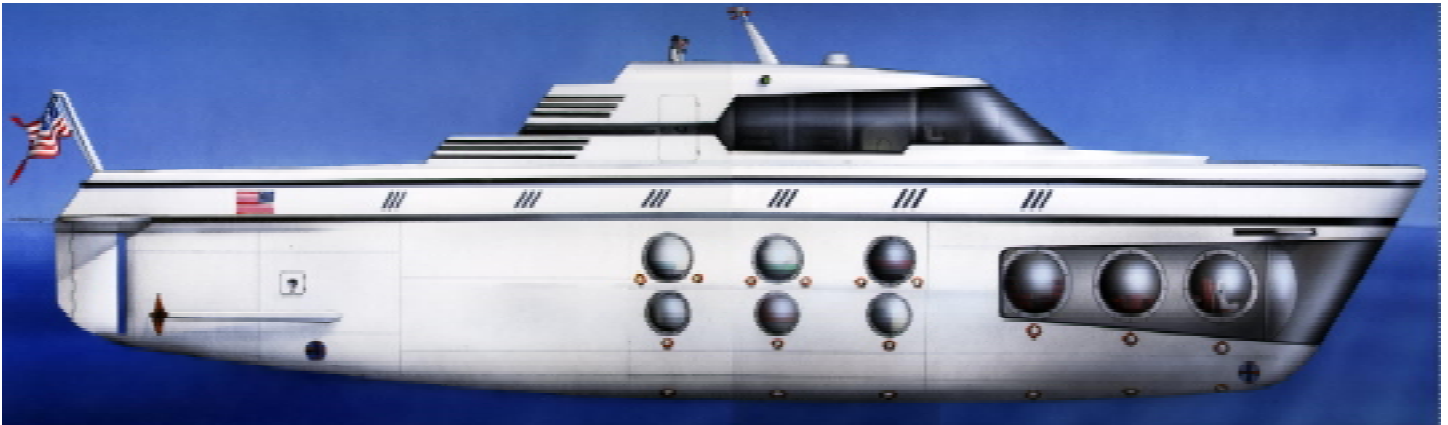


## Seattle 1000

The *Seattle 1000* is a diesel electric personal luxury submarine that is 36 meters (118') in length and displaces 380 tons. Powered by twin 500 KW diesels, the Seattle has a 14 knot cruising speed and a 3000 nautical mile surface range. The submarine, classed "A1 Manned Submersible" by the American Bureau of Shipping, is capable of diving to 305 meters (1000') and remaining submerged for up to 20 days.



# Seattle 1000

## General Specifications

Certification: ABS +A1  
Depth: 305 m (1000')  
Length: 36.0 m (118')  
Beam: 6.5 m (21.3')  
Displacement: 380 tons  
Pressure Hull Diameter: 5.0 m (16.4') (center)

## Dynamic Characteristics

Max. Surface Speed: 15 knots  
Cruising Speed: 14 knots  
Max. Submerged Speed: 8 knots

## Surface Propulsion

Surface Diesels: 2 x 500 KW  
Number of Shafts: 2

## Sub-Surface Propulsion

Main Electric Motors: 2 x 180 KW, 360 V DC  
Vertical Thrusters: 2 x 40 KW, hydraulic  
Horizontal Thrusters: 2 x 40 KW, hydraulic

## Endurance

Surface Range: 3000+ nautical miles  
Submerged Endurance:  
at 8 knots: 5 hours  
at 5 knots: 30 hours  
at 2.5 knots: 80 hours  
at rest: 20 days

## Battery & Electrical System

Main Battery: 360 VDC  
Control Battery: 24 VDC  
Comm. Battery: 24 VDC  
Emergency Battery: 24 VDC  
Total Battery Capacity: 1100 KWH  
Electric Generators: 2 x 180 KW

## Gas Supply

Main Oxygen: 30 days, full load  
Reserve Oxygen: 10 days  
Main Air: 275 bar, external  
Air Compressor: 310 bar, 50 KW  
Low Pressure Blower: 2 bar, 15 KW

## Ballast & Trim Systems

Main Ballast Capacity: 86,000 kg buoyancy  
Variable Ballast: 4,000 kg  
Trim Weight: 2,000 kg, 10 meter travel  
Drop Weight: 35,000 kg, 5 sections