

Subeo Ltd
Submarine Technology
99a Connaught Avenue
Frinton-on-Sea
Essex CO13 9PS
United Kingdom
Tel: 44 (0) 1255 678196
Fax: 44 (0) 1255 850301
E-mail: enquiries@subeo.com
Internet : www.subeo.com

Subeo Ltd Designers and Manufacturers of recreational and tourist submersibles using state of the art computers and logic controllers together with modern corrosion resistant materials.

GEMINI is the first in a range of 2/3 person vehicles constructed in 2001 and displayed for the first time at Cannes International Boat Festival 12-17 September Stand No: PA-13.

SUBMERSIBLE DETAILS

Name Of Craft	GEMINI
Weight of Craft In Air	3600 Kilograms
Maximum Width Of Craft	3.4 Meters
Hull Width	2.5 Meters
Length Of Craft	4 Meters
Speed Of Craft	2 – 6 Knots
Capacity	1 Pilot And 1 Observer
Maximum Operating Depth	50 Meters

Electrical Power System

Drive	4 Kilowatt DC Motor
Main Battery	400 Kilogram, 68v, 200 Amp/Hour Lead Acid
Emergency Battery	24v, 38 Amp/Hour Lead Acid
Craft Operating Duration	At 2 Knots Approximately 5 Hours

Life Support/Air Conditioning

Oxygen	2 x 0.5 Litre, 200 Bar Bottles Internal 72 Hours External Supply (ABS)
Co2	Sofnolime Scrubber
Air Conditioner	Peltier Solid State Chiller 1 Kilowatt Capacity
Heating	Resistance Heaters 1 Kilowatt
Blower	24v DC Dual Fan Head

Emergency

Manual Blow Of All 4 Surface Buoyancy Tanks
Provision For Lead Drop Of 100 Kilograms
Towed Buoy System

Communications

Surface	Marine VHF
Underwater OTS System	Range 1000 Meters Calm Sea 32.768 kHz, Bandwidth 300 – 400 Hz

Trim Systems

Surface Buoyancy	2000 Litres
Variable Buoyancy	2 x 115 Litre Spherical Tanks Transfer by 15Bar Pump
Additional Buoyancy	800 Litres PVC Foam Buoyancy, Density 100 Kg/M3
Trim Adjustment	150 Kilogram Lead Trim for Pitch Control

Dynamic Control

Propulsion	3 Bladed, 400mm Diameter Propeller In Kort Nozzle
Control Surfaces	Rudder in Shroud, Rear Hydroplanes in Shroud, Front Hydroplanes All Driven By 68v DC Stepper Motors

Instrumentation and Control

Touch Screen Readout And Alarms On Following Functions: -
Oxygen, Hydrogen, Carbon Dioxide, Depth, Internal and External Temperature and Humidity,
Battery Voltage 68/24 volts, Battery Current, Motor RPM and Temperature, Internal Pressure,
Buoyancy Tank Levels, Lead Pitch Setting, Air Supplies Main and Reserve.

Navigation

The Following Navigation Instruments Are Standard: -
Fluxgate Compass, Speed Log, Echo Sounder, Navigation Light and Strobe.

Classification

Craft Built In Accordance With the Rules for Building and Classing Underwater Vehicles, AMERICAN BUREAU OF SHIPPING