

Advanced Deep Water Simulation Test Machine For 1000m Depth 160L Capacity

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong , China
- Brand Name: YueXin
- Certification: ISO20653:2013 IEC60529:2013 IEC60598:2021 DIN40050-9:1993
- Model Number: YX-OS1000-160L
- Minimum Order Quantity: 1 pcs
- Price: usd+20000-50000+pcs
- Packaging Details: wooden box package
- Delivery Time: 30-45 days
- Payment Terms: T/T
- Supply Ability: 100+pcs+30



Product Specification

- Test Water Depth: 0-1000m
- IP Code: IPX8
- Material: 304 Stainless Steel
- Equipment Weight: About 340KG
- Control System: Touch Screen Control
- Pressure Display: Pressure Sensor
- Simulation Environment: Pressurized Water Immersion Environment
- Machine Name: Deep Water Simulation Test Machine
- Pressure Relief: Safety Valve
- Highlight: **Advanced Deep Water Simulation Test Machine, 160L Deep Water Simulation Test Machine, 1000m Deep Water Simulation Test Machine**



More Images



Product Description

Advanced Deep Water Simulation Test Machine for 1000m Depth and 160L Capacity

Equipment composition:

The ocean depth simulation test chamber is primarily composed of a 304 stainless steel outer casing, a touch screen control system, a pressure controller, safety valves, and other components.

Outer Casing and Tank Body:

Made of 304 stainless steel, they exhibit excellent corrosion resistance and pressure bearing capabilities.

Control System:

Equipped with a touch screen control system, it facilitates users in setting test parameters and monitoring the testing process.

Safety Valves:

These ensure that during the testing process, when the pressure exceeds the set value, it can automatically release the pressure, safeguarding the equipment and personnel's safety.

Product detail images:



exhaust valve

pressure regulating valve

Usage:

The deep-sea simulation testing machine finds broad application across multiple fields. In marine engineering, it assesses the durability of underwater equipment and submarine piping under pressure. In materials science, it analyzes the resistance of materials to corrosion. In military uses, it benchmarks the performance of equipment like submarines. Furthermore, it aids in environmental monitoring tasks, biological research endeavors, and evaluating the waterproof capabilities of various products.

Product characteristics:

Crafted from premium 304 stainless steel, the deep-sea simulation testing machine features a cylinder lid designed to open for streamlined operation. Equipped with touch-control settings, it offers sophisticated handling tailored to meet a wide array of testing needs. This apparatus is capable of replicating deep-sea conditions, assessing parameters like pressure and temperature to ensure the reliability of underwater equipment in such extreme depths.

- 1 The Machine is suitable for IPX8 waterproof test or Simulate the deep sea test environment.
- 2 The tank is made of 304 stainless steel material, which can ensure the pressure performance of the container and is not easy to rust.
- 3 All electronic control components are imported from LS, Panasonic, Omron and other brands, and the touch screen adopts a true-color 7-inch screen.

- 4 The pressurization method adopts the water injection pressurization method, the maximum test pressure can be simulated up to 1000 meters, and the equipment is equipped with a safety valve pressure relief valve (mechanical).
- 5 The pressure sensor is used to detect the test pressure and has the effect of stabilizing the pressure; if the pressure in the tank exceeds the pressure, it will automatically open the safety valve to drain water to relieve the pressure.
- 6 The control is equipped with an emergency stop operation button (the pressure is automatically released to 0 meters after pressing the emergency stop).
- 7 Support two test modes, users can choose according to test requirements:
 Standard test: The water pressure value and test time can be directly set, and the timing test will start when the water pressure in the tank reaches this value; the alarm will be prompted after the test is over.
 Programmable test: 5 groups of test modes can be set. During the test, you only need to select a certain group of modes and press the start button; each group of modes can be divided into 5 continuous test stages, and each stage can be set independently time and pressure values. (In this mode, the number of loop tests can be set)
- 8 Test time setting unit: minute.
- 9 Without a water tank, fill the tank with water after connecting the water pipe, and then pressurize it with a booster pump.
- 10 Casters and foot cups are installed at the bottom of the chassis, which is convenient for users to move and fix.
- 11 Protective device: Leakage switch, pressure safety valve protection, 2 mechanical pressure relief valves, manual pressure relief switch, emergency stop button.

Technical parameter:

| Item | Specification |
|--------------------------------------|------------------------------|
| External dimensions | W1150×D750×H1750mm |
| Inner size | Φ500×H800mm |
| Wall thickness of the Tank | 12mm |
| Tank material | 304 stainless steel material |
| Flange thickness | 40mm |
| Flange material | 304 stainless steel material |
| Equipment weight | About 340KG |
| Pressure control mode | Automatic adjustment |
| Pressure error value | ±0.02 Mpa |
| Pressure display accuracy | 0.001Mpa |
| Test water depth | 0-500m |
| Pressure adjustment range | 0-5.0Mpa |
| Exhaust pressure of the safety valve | 5.1Mpa |
| Test time | 0-999 min |
| Power supply | 220V/50HZ |
| Rated power | 100w |

Tags: Marine environment simulation test machine , Deep water environment simulation test machine , Water pressure environment test equipment



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