

## 500m 300L Ocean Depth Simulation Tester With High Pressure Bearing Capability

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-OS500-300L
- 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: 0-500m
- IP Code: IPX8
- Pressure Relief: Safety Valve
- Material: 304 Stainless Steel
- Equipment Weight: About 950KG
- Capacity: 300L
- Simulation Environment: Pressurized Water Immersion Environment
- Control System: Touch Screen Control
- Machine Name: Deep Water Simulation Test Machine
- Highlight: **300L Ocean Depth Simulation Tester , 500m Ocean Depth Simulation Tester**



### More Images



## Product Description

### 500m 300L Ocean Depth Simulation Tester with High Pressure Bearing Capability

#### 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:



safety valve

step ladder

#### Application:

Across various domains, including marine engineering for durability checks, materials science for corrosion analysis, and military uses for performance benchmarking of submarines, this deep-sea simulation test machine is widely utilized. Additionally, it facilitates environmental monitoring and waterproof testing of various products.

#### Product characteristics:

With a testing capacity of 100 meters deep, this deep-sea simulation test machine features a cylinder lid that opens for ease of use. Its touch-sensitive settings allow for adaptable control, suitable for various testing scenarios. Furthermore, stairs are provided for secure access, blending efficiency and user-friendliness for deep-sea environment simulations and underwater equipment testing.

- 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	W1550×D1150×H2550mm
Inner size	Φ500×H1600mm
Wall thickness of the Tank	12mm
Tank material	304 stainless steel material
Flange thickness	40mm
Flange material	304 stainless steel material
Equipment weight	About 950KG
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



Guangzhou Yuexin Test Equipment Co., Ltd.



18122303372



mft@yxipx.com



raintestchambers.com

101, No.3, Jiangjunzi Road, Dalong Street, Panyu District, Guangzhou City China