

Telide Valve and Vessel Test Benches

Pioneer in China's High-Pressure Safety Valve Test Benches

1 Reliable

□ Durable

() Built to last

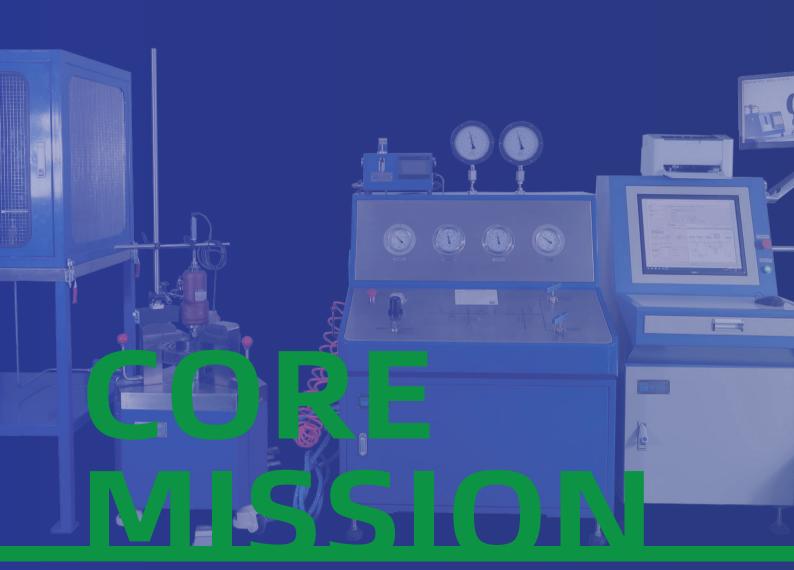


TELIDE SHENZHEN HIGH PRESSURE FLUID SYSTEMS CO., LTD.
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端 满足客户需求 助力客户发展

Meeting Needs. Driving Growth.





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COMPANY PROFILE



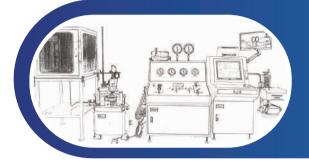
Since its establishment in 2001, Telide Shenzhen High Pressure Fluid Systems Co.,Ltd. has been deeply rooted in the field of high-pressure water, gas, oil, and other fluid technologies, serving as a pioneer with over 25 years of industry experience. Telide initially gained insights into global cutting-edge technologies by representing internationally leading high-pressure fluid components. Leveraging its profound expertise in fluid transmission and control, Telide successfully developed and delivered the first high-pressure gas safety valve test bench with new technology for a special inspection client in China in 2004. This equipment, renowned for its outstanding performance, has earned high client acclaim and remains in stable operation to this day.

Thanks to long-term trust and support from clients, Telide has continued to innovate over the past two decades. In addition to safety valve test benches, we have now developed a full range of valve test benches. Our products not only serve numerous domestic clients but have also successfully entered international markets, with high repeat purchase rates.

In recent years, Telide has significantly increased investment in R&D for high-pressure fluid core components, achieving remarkable results. Telide has established a robust development path–from core components to complete equipment, technological innovation to quality assurance, and efficient delivery to comprehensive services—all under independent control.

Amidst global changes, Telide upholds the spirit of Shenzhen's Special Economic Zone: "Dare to explore, pioneer, and work diligently." Adhering to the principle of "sharing development achievements," the company welcomes talents. With "Meeting Needs and Driving Growth" as our core mission, we look forward to collaborating with partners to create a new future for the industry!

CORE COMPETENCE



— DESIGN

Having a stable and high-level design team

— MACHINING -

Equipped with first-class equipment such as Mazak lathes and HAAS mills





— INSPECTION

Equipped with CMM and spectrometer, etc.

— AFTER-SALES —

Professional and efficient service





Safety Valve Test Benches

01

Safety Valve Test
Benches
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Custom Safety Valve
Test Benches



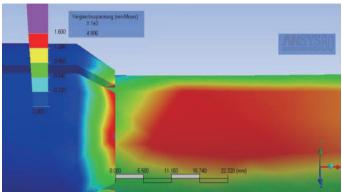
Portable Safety Valve Test Benches

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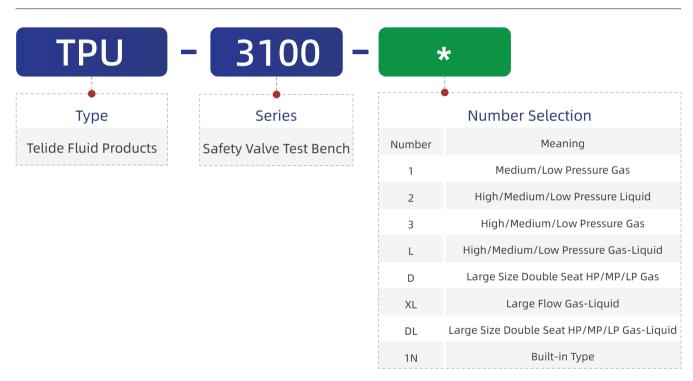


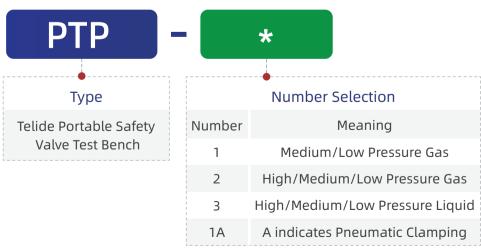
Safety Valve Grinding Machines





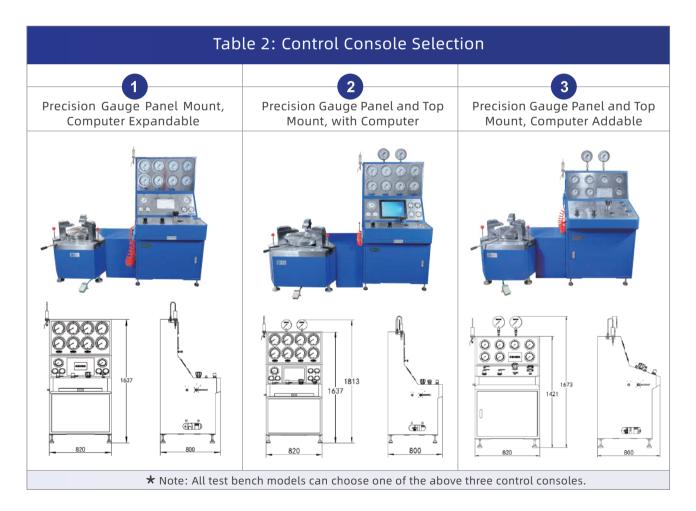
Safety Valve Test Bench Selection





Safety Valve Test Bench Selection

Table 1: Test Bench Selection								
	Clamping Force	Control Console (Choose One of	Value	C:		Test M	edium	
Model	(Ton)	Three)	Valve	e Size	Gas	(bar)	Liquic	l (bar)
TPU-3100-1/11	11		DN15-	DN200	15	50		
TPU-3100-1/20	20		DN15-	DN200	15	50		
TPU-3100-3/20	20		DN15-	DN200	400	680	No	ne
TPU-3100-3/30	30	Select	DN15-DN300	DN15-DN250	400	680		
TPU-3100-3/40	40	per Table 2	DN15-DN400	DN15-DN300	400	680		
TPU-3100-L/20	20	Table 2	DN15-	DN200	400	680	400	680
TPU-3100-L/30	30		DN15-DN300	DN15-DN250	400	680	400	680
TPU-3100-L/40	40		DN15-DN400	DN15-DN300	400	680	400	680
TPU-3100-L/60	60		DN15-	DN300	40	00	40	00
★ Note: 1. TPU-3100-1/11 uses pneumatic clamping. 2. Colored rows indicate first choice.								



TPU-3100-3

High/Medium/Low Pressure Gas Safety Valve Test Bench



▶ Features

- 3-claw moving system for easy and fast clamping; includes seat tightness system;
- Axial precision gauges of different ranges are panel-mounted. Low-range gauges include manual shut-off and overpressure protection valves;
- Hydraulic automatic clamping offers multiple modes like pre-clamping, precise, and rapid clamping, allowing a single person to quickly complete the test.

Max. Test Gas Pressure	Test Size	Clamping Force
400bar	DN15-300	30 tons (other clamping forces available)



TPU-3100-3

High/Medium/Low Pressure Gas Safety Valve Test Bench



Features

- 3-claw moving system for easy and fast clamping; includes seat tightness system;
- continuous Equipped with high-pressure gas regulator, output pressure steplessly adjustable;
- Hydraulic automatic clamping offers multiple modes like pre-clamping, precise, and rapid clamping; equipped with Telide Test System Software (TSS).

Max. Test Gas Pressure	Test Size	Clamping Force
680bar	DN15-400	40 tons

TPU-3100-L

High/Medium/Low Pressure Gas-Liquid Safety Valve Test Bench



▶ Features

- 3-claw moving system for easy and fast clamping; includes seat tightness system;
- Pour radial precision gauges (e.g., 600bar range) are provided, each equipped with rapid connector for easy replacement and calibration;
- Capable of both fast liquid filling and slow pressure increase.

Max. Test Pressure	Test Size	Clamping Force
Gas 400bar, Liquid 400bar	DN15-300	30 tons



TPU-3100-1

Medium/Low Pressure Pneumatic Clamping Safety Valve Test Bench



▶ Features

- 3-claw moving system for easy and fast clamping; includes seat tightness system;
- Equipped with three sets of axial precision gauges of different ranges, all mounted on the panel;
- Self-developed pneumatic clamping system, divided into high and low gear positions.

Max. Test Gas Pressure	Test Size	Clamping Force
150bar	DN15-200	Low gear ~3.3 tons, High gear ~11 tons

BC-03

Digital Bubble Counter



▶ Features

- Can be used alone or with Telide Test System Software (TSS);
- Automatic counting or manual counting;
- Accurate results, lightweight, compact size, easy connection, suitable for all valve tests requiring bubble counting.

Medium	Pressure	Dimensions and Weight
Gas	Less than 10bar	L300 x W210 x H220 (mm), 6.5kg



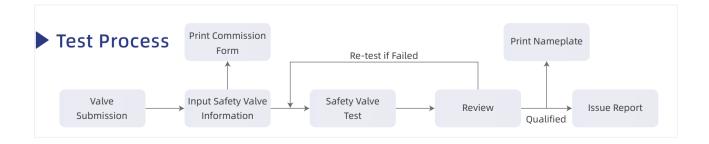
TSS

Safety Valve Test System Software



▶ Features

- The software offers standalone, LAN, OA-integrated, and web-based versions;
- Its network architecture and central database support QR code scanning, multi-terminal data sync, and online marking for efficient processing;
- Clients can conveniently schedule inspections online and track valve status in real-time.



PTP-1A

Portable Automatic Clamping Gas Safety Valve Test Bench



▶ Features

- Can use nitrogen gas cylinder as a single gas source for both clamping and testing;
- Provides 2 precision gauges (0.4 grade, 160bar range), connected to the system via rapid connector;
- Split design, standard with trolley case, compact and lightweight for easy transport by plane or train.

Max. Test Gas Pressure	Test Size	Clamping Force
150bar	DN15-150	3 tons, 6 tons (two gears freely selectable)

PTP-1

Portable Integrated Gas Safety Valve Test Bench



▶ Features

- All components, including clamping and pressure control part, are integrated into a single portable case for lightweight, compact use;
- ☼ The pressure source is supplied by high-pressure nitrogen gas or compressed air (≤200bar);
- The panel-mounted regulator and shut-off valve are included, along with 2 precision gauges (0.4 grade, 160bar range).

Max. Test Gas Pressure	Test Size	Clamping Force
150bar	DN15-150	6 tons

PTP-3

Portable High-Pressure Liquid Safety Valve Test Bench



▶ Features

- Uses ZMAIT air-driven pump with both pneumatic and manual functions, offering fast pressurization and good pressure holding.;
- Lightweight and portable, can be pressurized manually or pneumatically; the clamping and test tables are separable for easy transport;
- The clamping and test tables are equipped with protective partitions for safety; the clamping table is also suitable for gas testing.

Max. Test Liquid Pressure	Test Size	Clamping Force
680bar	DN15-150	8 tons



TPU-3100-3

Computer Remote Control Ultra-High Pressure Gas Test Bench



Features

- Computer remote controls the entire testing process up to 1200bar gas pressure, automatically acquires set pressure and judges sealing performance;
- Configured with audio and valve stem displacement judgment methods to evaluate and determine set pressure and sealing performance;
- Output pressure steplessly adjustable, smooth and controllable, high testing accuracy.

Max. Test Gas Pressure	Test Size	Clamping Force
1200bar	DN15-200	20 tons

TPU-3100-D

80T Double Seat High-Pressure Gas Safety Valve Test Bench



▶ Features

- Clamping force up to 80 tons, with a 6-claw design in the large clamping console for simultaneous 6-claw clamping, or 4, 3, or 2 claws;
- Hydraulic automatic clamping offers multiple modes like pre-clamping, precise, and rapid clamping, allowing a single person to quickly complete the test;
- Large size and double seat design: the large seat supports big safety valve testing, while the small seat is for medium and small valves.

Max. Test Gas Pressure	Test Size	Clamping Force
420bar	Small Seat DN15-200 Large Seat DN200-400	Small Seat 40 tons, Large Seat 80 tons



TPU-3100-L

High/Medium/Low Pressure Gas-Liquid Safety Valve Test Bench



Features

- Equipped with Telide Test System Software (TSS);
- Hydraulic automatic clamping offers multiple modes like pre-clamping, precise, and rapid clamping, allowing a single person to quickly complete the test;
- ☼ Independent water tank, large capacity.

Max. Test Pressure	Test Size	Clamping Force
Gas 400bar, Liquid 400bar	DN15-300	60 tons

TPU-3100-XL

Large Flow Gas-Liquid Safety Valve Test Bench



Features

- 1 Integrated on a single skid plate; equipped with high-pressure air compressor;
- Equipped with Telide Test System Software (TSS) and digital bubble counter;
- Hydraulic automatic clamping offers multiple modes like pre-clamping, precise, and rapid clamping, allowing a single person to quickly complete the test.

Max. Test Pressure	Test Size	Clamping Force
Gas 310bar, Liquid 310bar	DN15-300	40 tons

TPU-3100-DL

Large Size Double Seat Gas-Liquid High-Pressure Test Bench



▶ Features

- Equipped with Telide Test System Software (TSS);
- Hydraulic automatic clamping offers multiple modes like pre-clamping, precise, and rapid clamping, allowing a single person to quickly complete the test.
- Large size and double seat design: the large seat supports big safety valve testing, while the small seat is for medium and small valves.

Max. Test Pressure	Test Size	Clamping Force
Gas 400bar, Liquid 680bar	Small seat DN15-200 Large Seat DN200-400	Small Seat 40 tons, Large Seat 40 tons

TPU-3100-1N

Built-in Safety Valve Test Bench



▶ Features

- Hydraulic automatic clamping for safe and reliable operation, providing greater clamping force for valves of the same size;
- Equipped with Telide Test System Software (TSS);
- The machine features strong mechanical rigidity, a well-designed test circuit, and high-quality, reliable components for accurate testing.

Max. Test Gas Pressure	Test Size	Clamping Force
60bar	DN15-150	13 tons

TPU-3100-4

Mobile Safety Valve Test Shop







Features

- Evaluated by the State Scientific and Technological Commission: Fills a domestic gap; the first-generation product, developed with Zhejiang Special Inspection Institute, has been in use for over 10 years;
- The test bench and vehicle employ multiple proprietary technologies;
- Used by several special inspection institutes in China with positive feedback.

Max. Test Gas Pressure	Test Size	Clamping Force
400bar	DN15-300	40 tons

TPU-3100-LPC10

Containerized Safety Valve Test Workstation







▶ Features

- ☼ 10-foot container design;
- Equipped with lifting devices, air conditioning, and tools required for a mobile workshop;
- Pull-featured design with 20-foot container customization available.

Test Pressure	Test Size	Clamping Force
Gas 680bar, Water 680bar	DN15-400	40 tons

AT-30

Computer Recorder



▶ Features

- Equipped with Telide Test System Software (TSS);
- Test data saved in Excel documents, convenient for review and storage;
- 🗘 Instantly generates test reports, with curves that can be zoomed in and pressure at any point captured.

Sampling Rate	Pressure Unit Conversion	Dimensions and Weight
Up to 1000 points per second	MPa-bar-psi	L630 x W800 x H1340 (mm), 107kg

AT-31

Portable Computer Recorder



▶ Features

- Equipped with Telide Test System Software (TSS);
- Test data saved in Excel documents, convenient for review and storage;
- Instantly generates test reports, with curves that can be zoomed in and pressure at any point captured.

Sampling Rate	Pressure Unit Conversion	Electric Control Box Dimensions
Up to 1000 points per second	MPa-bar-psi	L280 x W225 x H170 (mm)

A-1

Safety Valve Sealing Surface Grinding Tool



▶ Features

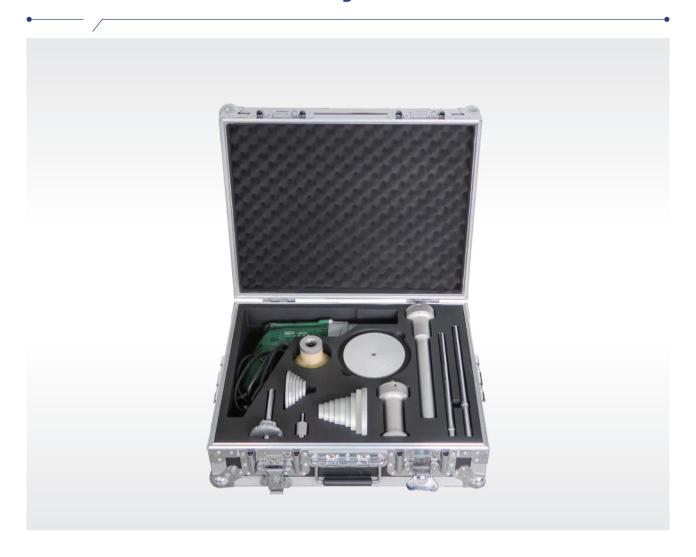
- The product consists of a handle, flat grinding head, guide sleeve, coarse plate, fine plate, grinding paste, screws, etc.;
- The guide head is made of non-metallic material, preventing damage to the sealing surface;
- Equipped with a rotating handle to reduce physical effort and improve grinding efficiency.

Suitable Size	Grinding Head	Grinding Plate
DN25 ~ 200mm	DN25、32、40、50、65、80、	Coarse Plate: 300X300 mm
	100、150、200mm	Fine Plate: Φ270 mm



B-1

Portable Electric Valve Grinding Machine



Features

- Modular design for quick assembly, disassembly, and easy installation and operation;
- Oldeal for on-site maintenance and valve seat repair in complex environments, especially for welded valve seats;
- ② Electric operation reduces labor intensity, improves efficiency, and provides high-quality grinding.

Suitable Size	Max. Grinding Depth	Rated Input Power
DN20~DN150	260mm	810W

TLD-380X

Small Plane Grinding Machine



▶ Features

- Used for grinding the valve disc of safety valves and the sealing surfaces of flat hard-sealed valves;
- Applicable to stainless steel, alloy steel, cemented carbide, cobalt-based alloy, sprayed tungsten carbide, babbitt alloy, carbon steel, cast iron, and copper alloys;
- Peatures an automated control system for automatic grinding fluid distribution and shutdown after grinding. Includes a Disc Repair Machine for resurfacing grinding discs.

Grinding Disc Specification	Machined Flatness	Machined Roughness
Φ380mm*Φ100mm*Thickness (12mm~15mm)	Diameter ≤Φ10mm: 0.002mm Diameter ≤Φ50mm: 0.003mm Diameter Φ100mm: 0.008mm	≤ Ra 0.2µm



Breathing Valve Test Benches

02

Breathing Valve
Test Benches
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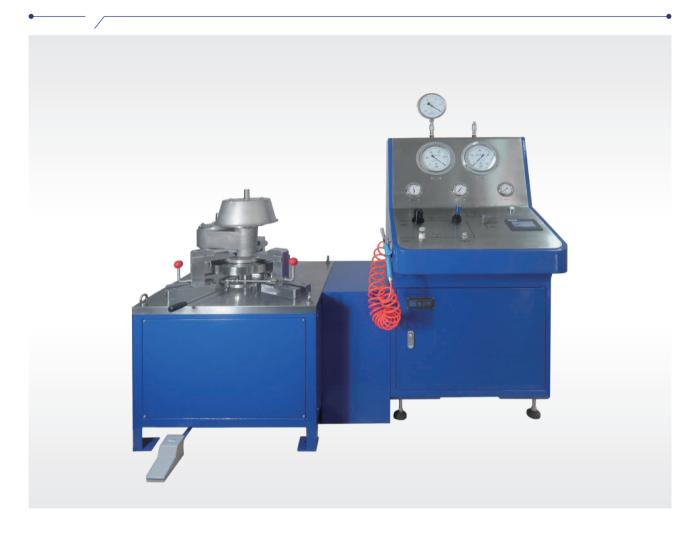


Portable Breathing Valve Test Benches

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TPU-3100-1H

Breathing Valve Test Bench



▶ Features

- OPPositive and negative pressure tests are integrated in the same bench, with easy switching;
- Automatically judges whether set pressure and leakage meet standards;
- Uses automatic clamping, safe and reliable, saves time and effort.

Test Medium	Test Pressure	Test Size
Air	Positive 0~30kPa, Negative -0.5~0kPa Larger pressure test ranges available	DN50-250



TPU-3100-1HL

Flow-type Breathing Valve Test Bench



▶ Features

- Automatic determination of set pressure and leakage;
- A flowmeter tests breathing valve leakage during both exhalation and inhalation;
- Includes AT-31 computer recorder with proprietary Telide Test System Software (TSS) for generating test reports.

Test Medium	Test Pressure	Test Size
Air	Positive +1.0~+103kPa, Negative -10~-0.7kPa	DN50-400 (Automatic Clamping)
	Flow Test Range 0-15L/min	(Automatic Clamping)

PTP-4

Portable Breathing Valve Test Bench



▶ Features

- Operative and negative pressure tests are integrated in the same bench, with easy switching;
- Manual clamping with a four-claw structure, safe and reliable;
- Plow testing functionality and pressure-flow testing software can be added.

Test Medium	Test Pressure	Test Size
Air	Positive: 0.8 KPa~30KPa Negative: -0.28KPa~-0.5KPa	DN50-250



Universal Valve Test Benches

Vertical Universal Valve Test Benches 03

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TPU-3100-3U-SHAC

Gas Valve Test Bench



Features

- ☼ Independently designed, capable of testing safety valves and other valves such as shut-off valves;
- High-pressure air compressor for test gas supply, equipped with two large-capacity air cylinders;
- Provides Telida digital bubble counter, full set of rubber plugs, and three-claw moving system.

Test Pressure	Test Size	Clamping Force
Gas 300bar	DN15-250	15 tons



TPU-3100-LU-SHAC

Gas-Liquid Valve Test Bench



Features

- 🗘 Independently designed, capable of testing safety valves and other valves such as shut-off valves;
- 🔂 High-pressure air compressor for test gas supply, equipped with two large-capacity air cylinders;
- Vertical gantry clamping with self-locking function, equipped with a 3-claw moving system at the base for unilateral clamping.

Test Pressure	Test Size	Clamping Force
Gas 330bar, Liquid 350bar	DN15-400	30 tons

TC-10-1

Horizontal Universal Valve Test Bench



▶ Features

- Capable of testing valve pressure, seat tightness, and wedge gate valve cavity sealing;
- ② 60-ton clamping force with stepless adjustment and automatic proportional precise clamping;
- Equipped with a computer recorder for automatic pressure testing.

Test Pressure	Test Size	Clamping Force
Gas 6.9bar, Liquid 300bar	DN15-250	60 tons



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Hydrostatic Water Jacket Cylinder Test Benches







Impulse Test Benches

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04

Hydrostatic & Impulse Test Benches

HPU-1301V

Hydrostatic Water Jacket Cylinder Test Bench



▶ Features

- Measures cylinder deformation using both outside and inner methods, with accurate and cross-verifiable data;
- Section Fast filling, pressure rise controlled by program, automatically calculates residual deformation;
- One bench, with an optional burst chamber for measuring burst pressure; compatible with different water jackets.

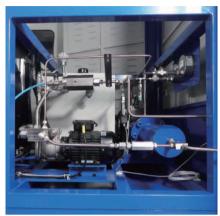
Medium	Medium Temperature	Max. Output Fluid Pressure
Water, Oil, etc. (Liquid)	+10°C ~ +60°C	2300bar



HPU-1302

Water Impulse Test Bench







▶ Features

- ☼ Telida's proprietary high-temperature, high-pressure cycling device meets standard requirements;
- Pre-set pressure testing process before operation, including peak/valley pressure, impulse count, medium temperature, waveform, and other parameters;
- Uses high-frequency acquisition cards and a control/software system with strong anti-interference.

Medium	Medium Temperature	Impulse Pressure Range
Clean Water	Water: +10°C~+80°C Oil: +10°C~+100°C Higher up to +150°C available	Peak: 50-700bar, adjustable Valley: below 400bar, adjustable

HPU-1302

Oil Impulse Test Bench



▶ Features

- Pre-set pressure testing process before operation, including peak/valley pressure, impulse count, medium temperature, waveform, and other parameters;
- 🗘 Uses high-frequency acquisition cards and a control/software system with strong anti-interference.
- Safety features: Emergency stop, liquid level and over-temperature alarms, and door-open stop during testing.

Medium	Medium Temperature	Impulse Pressure Range
Oil	Adjustable between 0°C and 65°C	20-700bar



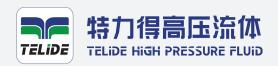












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