KASONXG-10T Pipe Pressure Burst Testing Machine

Picture Just for Reference

Application

The KASON XG Series hydrostatic blasting tester is suitable for the determination of the hydraulic instantaneous blasting of various plastic pipes for fluid transportation and the determination of the rupture resistance time of thermoplastic pipes under long-term constant pressure. It is a necessary testing instrument for scientific research institutes, quality inspection departments and pipe manufacturers.

The hydrostatic testing machine adopts the central cluster control of embedded PC (hereinafter referred to as PC). Each channel is a module,

Each module is equipped with a microcomputer, which is used to receive the embedded PC control instructions and realize the control. At the same time, the control information is continuously fed back to the PC through the serial bus, and the PC completes the collection and storage functions of

the test data. It has the functions of pipe rupture identification, real-time monitoring, incoming call data recovery, printing, storing test results, and sample preprocessing settings.

Standard

Standard No.	Standard Name
GB/T6111-2018	Thermoplastics piping systems for the conveyance of fluids—Determination of the resistance to internal pressure
GB/T15560-95	STANDARD test method for short-time hydraulic failure and resistance to constant internal pressure of the plastics pipes for the transport of fluids
IS01167-2006	Thermoplastics pipes, fittings and assemblies for the conveyance of fluids --Determination of the resistance to internal pressure -- Part 1: General method
IS01167-2006	Thermoplastics pipes, fittings and assemblies for the conveyance of fluids --Determination of the resistance to internal pressure -- Part 1: General method
ASTM D1598-2004	Pipe, Plastic, Under Constant Internal Pressure, Time-to-Failure of (No S/S Document)
ASTM D1599	Standard Test Method for Resistance to Short-Time Hydraulic Pressure of Plastic Pipe, Tubing, and Fittings1

Technical parameter

KASON-XG-10T Pipe Pressure Burst Testing Machine		
Test pipe diameter range	D16~1000	
Number of test routes	3 way(other optional)	
Control method	PC control	
Data preservation	Each channel has a power-off data protection function, which can be restored after power-on	
Time	Timing	0~9999 hours 59 minutes 59 seconds
	Timing accuracy	±0.1%
	Time resolution	1s
	Minimum setting unit	min
Pressure	Pressure control range	0.4~10MPa can be set arbitrarily; other pressure units can be set such as: MPa, PSI or bar
	Pressure Control Accuracy	-1%~ +2%, can also be set arbitrarily
	Pressure display resolution	0.001MPa
	Measuring range	4%~100%FS
	Indication allowable error limit	Within 1% of the indicated value

Working principle

Input the parameters such as ring stress, wall thickness and average outer diameter of the pipe on the PC, and automatically calculate the test pressure. The data is transmitted to the lower computer (MCU embedded system) through the RS232 serial port, and the lower computer automatically conducts constant pressure on the pipe. High pressure pump A high-pressure liquid pressure source is generated, and through the pressure control system, the high-pressure hose is transported to the sample in the medium incubator, and the long-term hydrostatic test or blasting test of the pipe

is carried out. The test results of this equipment can fully reflect the level of product quality of the enterprise.

Instrument Features

1.Main engine features (pressure center control system)

1) System main interface: Multi-layer integrated display mode, each channel can display pressure, time, temperature curve

2) Integrated modular design:The maximum pressure of the main circuit is 12Mpa, and the maximum pressure of the branch circuit is 10Mpa. The number of test stations can be combined freely. The host can install up to 30 standard control modules. Each control module can be connected to an independent station. One host can control 10 stations independently without interfering with each other. The number of modules can be increased and decreased freely inside, which is convenient for upgrade and maintenance.

Each module can collect and control the opening and closing of a total of 2 solenoid valves in 1 station, and can collect the pressure value of 1 station. It adopts a highly reliable control chip, which resists strong electromagnetic interference and ensures foolproof control.

3) Diversified design features:It can be used for long-term hydrostatic test of pipeline and blasting test of pipe (both blasting and pressure test can be carried out for each route), and can also be used for thermal stability test of thermoplastic pipe under hydrostatic state.

Each channel has multi-stage accumulating pressure control, which has fast response speed and ensures stable pressure control; it can prolong the service life of the solenoid valve.

4) High precision and high stability:In order to ensure the long-term stability of the instrument, the technical core and key components of the machine are globally sourced, and the origin comes from famous companies and brands in the United States, Germany, Japan and the United Kingdom to ensure the high precision and high stability of the instrument.

5) Wide pressure control range:The pressure control range of each station is arbitrarily set from 0.4-10MPa.

6) Guarantee of high reliability:All electrical, mechanical and software parts are equipped with safety precautions. Such as anti-leakage, anti-short circuit, anti-static, anti-interference, anti-leakage, anti-power failure, anti-misoperation and so on.

7) Integrated modular assembly: each channel is equipped with a micro-control unit and a solenoid valve control unit, which do not interfere with each other, and the test rupture of one channel does not affect the normal test of other channels.

8) Interface in Chinese and English and user-friendly design: The main control interface has the function of real-time display of the main circuit computer pressure and real-time display of the shunt pressure peak value. In the main test interface, you can choose to display the timing pressure, set pressure, remaining time, setting pressure of each station. Set time, delay test time, medium box temperature and remarks and many other information are clear at a glance, and you can see the content of concern at a glance without entering the single-channel interface.

9) The product is divided into three parts: pressure host, water tank, fixture. Each part of the specifications and models are selected by the user, and special customizations can also be undertaken.

2. Pressure source system:

1) The main pressure source is integrated, and one pressure source can be connected to multiple hosts

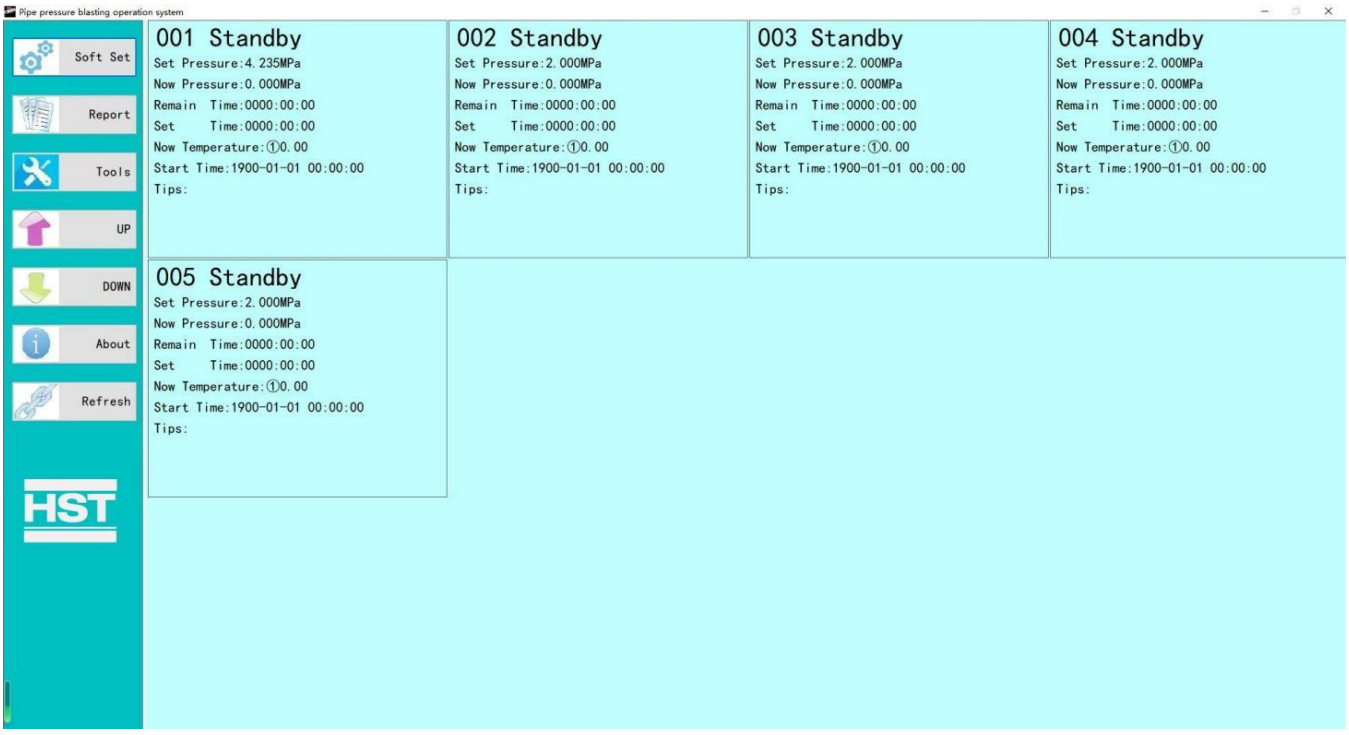
2) High main pressure and large flow

3) Wide pressure range, storage pressure can be adjusted arbitrarily

4) The automatic water replenishment module can be added to ensure that the pump body is not damaged due to water interruption

5) Low noise, safe and stable

6) The instrument comes with leakage protection and water shortage protection functions



KASON-TANK Constant Temperature Water Tank

Picture just for reference

Application

The constant temperature water tank is suitable for the long-term constant pressure test, instantaneous burst test and the determination of the failure resistance time of thermoplastic pipes under long-term constant pressure of various plastic pipes at various temperatures. It is the necessary testing equipment for scientific research institutes, quality inspection departments and pipe manufacturers.

Executive standard

1. GB/T 6111-2018 "Test method for internal pressure resistance of thermoplastic pipes for liquid transportation";

2. ISO 1167-1996 "Test method for internal pressure resistance of thermoplastic pipes for fluid transportation";

3. GB/T 18252-2000 "Determination of long-term hydrostatic strength of thermoplastic pipes by extrapolation of plastic piping systems";

4. GB/T 15560-95 "Hydraulic instantaneous blasting and pressure test methods for plastic pipes for fluid conveying";

5. ASTM D1598-2004 "Pipe, Plastic, Under Constant Internal Pressure, Time-to-Failure of (No S/S Document)";

6. ASTM D1599 "Standard Test Method for Resistance to Short-Time Hydraulic Pressure of Plastic Pipe, Tubing, and Fittings1"

Instrument Features

1. The thermal insulation system adopts the inner tank as a whole for thermal insulation, and the material adopts two thermal insulation materials, which have good thermal insulation performance and significant energy-saving benefits for long-term use. When the water temperature is 95 ℃, the outer box is still close to room temperature, which greatly improves the safety of the whole machine, and at the same time saves more than 70% of power consumption;

2. The pipeline adopts a circulating spray system, and the overall pipeline system is made of 304 stainless steel.

3. External (or built-in) heater, high heat exchange efficiency, no need to stop the heater during maintenance, repair and maintenance, and will not affect the normal operation of the test

4. The opening method of the box cover is pneumatic opening, which should meet the space for laboratory use after opening;

5. The opening angle (opening size) of the box cover can be stopped at will, and it has reliability, safety and convenience;

6. The box cover is sealed with silicone rubber strips, and there is no outgassing at high temperature;

7. The bottom of the structural frame has large bearing weight and strong deformation resistance;

8. Stainless steel inner tank, equipped with stainless steel pump body structure frame bottom, large bearing weight and strong anti-deformation ability.

9. The material liner is 2mm thick stainless steel plate.

10. Thick insulation layer above 85mm, and measures to reduce thermal bridge (short circuit), heat preservation and power saving.

11. The inner and outer tanks of the water tank are made of 304 stainless steel.

12. German circulation pump, large water tank circulation capacity 135 L/min (rated). Depends on tank size

13. The temperature control system adopts the brand leakage protection device to protect personal safety in time.

14. The constant temperature water tank can circulate automatically or connect to the external circulation system.

15. The water tank has its own heating control system, and the pressure input port is determined by the user (such as 10 ports).

16. If the refrigeration system is selected (the temperature can be lowered from room temperature to 20°C), the high-power industrial compressor refrigeration system,

17. The inner wall of the water tank is equipped with high-pressure ports, and each port is equipped with high-pressure and high-temperature hoses. High pressure hose can work at 95 degrees

18. The water tank adopts a spray structure. The circulating pump draws out the hot water from the bottom and sprays it from the top. This cycle goes back and forth, and the temperature of the water tank is always kept in balance.

19. The temperature control system adopts the most advanced microprocessor and has an RS232 interface, which can communicate with the computer in real time and transmit the temperature to display on the computer interface.

20. The water tank cover adopts double cylinder auxiliary lifting method, which is stable, safe and reliable.

21. The heating system of the water tank adopts a vertical heating structure on the back, which has the characteristics of safety and convenient maintenance.

Technical parameter

HPT constant temperature water tank	
Model	KASON-Tank
Maximum test tube diameter	D16----D630
Number of test routes	Depends on the number of hosts
Test temperature	Temperature control range with refrigeration system: 20°C--95°C (optional)
Temperature control accuracy	±1℃
Liner material	All 304 stainless steel inside and outside
Liner size	Specific according to the contract
Heating power	9KW (regular) (specifically according to the contract)
Open tank lid system	The water tank above 315 is controlled by the cylinder

304 Stainless Steel End Caps

1. Product Description

The plastic pipe and pipe fitting sealing fixture series are mainly used for hydraulic test and negative pressure test. It adopts tie rod-free radial sealing to meet the requirements of ISO, GB and other relevant standards. It can be used for end sealing of various pipe fittings such as PVC, PE, PP-R, and steel-lined composite. The fixture is mainly composed of clamping block, elliptical end, silicone sealing ring, pressure ring and other main parts.

2. Compliance with standards

GB/T6111-2009, GB/T15560-95, GB/T18997.1-2003, GB/T18997.2-2003, ISO1167-2006, ASTM D1598-2004, ASTM D1599

3. Product features

3.1. φ10-φ1200 is processed by precision casting, and the seal adopts A-type radial seal structure. The material is all made of high-quality 304 stainless steel. The outer surface of the fixture parts is uniform in stainless steel color, with high strength and corrosion resistance.

3.2. The fixture is a patented product with a simple structure and convenient operation. During the experiment, the process of first clamping and then sealing is realized to ensure 100% leakage-free clamping.

3.3. When assembling the fixture, no special clamping bracket is required, and all parts above 3KG have safe lifting devices.

3.4. The split-flap clamping block structure can realize automatic centering, making the pipe and fittings clamped more firmly. The clamping block is designed as a solid structure to ensure strength and clamping firmness, and is easy to carry and assemble.

3.5. The end of the fixture adopts four-leg support to make installation more convenient and keep the sample stable in the bath during the test.

4. Product real shot pictures

4.1 DN Stainless Steel Series

4.2 Φ Stainless Steel Series

4.3 Carbon Steel Series


PIPE PRESSURE BURSTING TESTING MACHINE
PRESSURE SOURCE


HST GROUP
PRESSURE SOURCE
PIPE PRESSURE BURSTING TESTING MACHINE

Why choose us!

19 YEARS

Professional focused on testing equipment

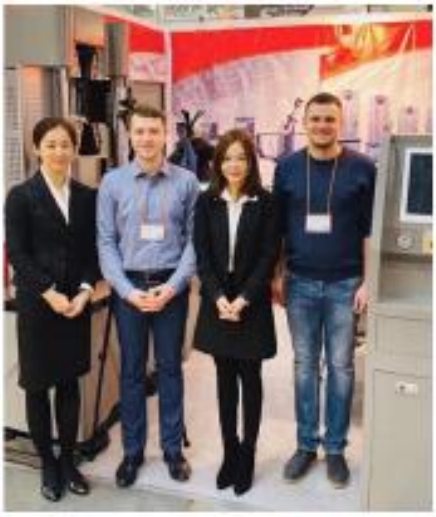
KASON is established in 2003,owns more than 8000 square meters factory.has a professional sales teams, modem enter prise technology center,scientific and technological research and development team.

Machines passed the European CE authentication,American FDA certificate and and ISO 9001.

Products sold to USA, Canada, Australia, Europe, Africa etc,more than 130 countries and supply OEM service for many customers

PROFESSIONAL TEAM

KASON has a professional sales teams, modem enter prise technology center,scientific and technological research and development team.



OUR CUSTOMERS (more than 130 countries)



OUR CERTIFICATE (CE / ISO / SGS)





DuandianIndustrial Park ,
Jingshi Road, Jinan City,
Shandong Province, China.

Tel. +86 17860598665
Fax. +86 531 86113769
Email: admin@jnkason.com