**HT-2402 Computer Servo Control Material Testing Machines**

**Description**

1. **High Precision, High Accuracy, High Stability** Material Testing Machines - able to do tensile, compression, flexural and bending test.

2. ISO 9001 and CE certified, superior products fabricated by highly trained and experienced personnel.

3. **High Strength Structure**
   High strength aluminium alloy combined with streamlined design, elegant, bright and generous.

4. **High Stability**
   Using Ball screw, less loss of kinetic energy and eliminating noise.

5. **High Precision Load Cell**
   Features a low-profile load cell, with stable load induction, high accuracy, high stability, and safety factor of 150%.

6. **Computer System**
   Outstanding software, powerful control functions.

7. **Easy Operation**
   Superior function with quick operation, and testing speed range is from 0.005 ~ 500 or 1000 mm/min.

8. **Standardization**
   A range of testing grips specification standardized modular replacement design, switch grips easily and fast for different testing samples.

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**HT-2101 Electro-Hydraulic Servo Universal Testing Machines**

**Description**

Computer Measuring System - control & Edit Setting Functions
Intelligently computer control & measuring software to improve testing efficiency.

**Powerful Control Functions**

- Basic control mode contains fixed velocity, fixed displacement, constant load speed, fixed load, constant stress speed & constant strain speed.
- Available to freely set up cyclic mode, define cycle times, conduct the next stage of control mode after the preset cycle is up to next set up control mode.
- Set up for tensile and compression mode.
- Control mode database management, available to repeat editing and setting.
• Control mode can cover most international test standards like GB, CNS, ASTM, ISO, DIN & JIS.
• Able to do low frequency testing.

**HT-2556 MOVINGDIERHEOMETE**

Brand: Hung Ta

**Description**

**Features:**

• Curved, streamlined appearance for high quality visual sensation.  
• Computer-monitored for better control of machine in real time.  
• Servo-driven for more stable vibration frequencies and control with better accuracy.  
• Highly sensitive temperature control, automatic PID calculation and computer transmission for better temperature control.
• Direct heating ensures constant temperature and accelerates heating and warming rates.
• Heating from room temperature to 19°C in 8 minutes + Unsealed Die Time needed for changing temperature settings:
  < 3 minutes from 11°C to 19°C; < 4 minutes from 19°C to 11°C.  
• Warming up to the set temperature in less than 1 minute during testing with ±0.3°C compensation control range.
• Light-weight upper and lower dies for easy installation and removal.
• Windows-based user interface is easy to learn and use and equipped with powerful analysis functions; interface is provided with multiple languages for the user's choice.
• Modular database is easy to use and build.
• Data sampling rates are high and therefore possibility of lost data is low
• Capable of importing and exporting report in formats of Excel, Word, html and pdf, making it easy for data transmission and storage.
• Complete data storage for reanalysis and confirmation, thus preventing human errors.

**HT-8041 Charpy Impact Testing Machines**

Brand: Hung Ta

**Description**

Charpy Impact Testing Machines

ASTM D-256, JIS K-7111, K-6911, K-6743, CNS-10425, B7255

• This tester is used to determine the energy required to break plastics, composites, and metallic materials. A notch is made at the center of a rectangular standard test specimen. Both ends are used as supports. Impact force is applied by releasing the pendulum. The energy required to break a specimen is calculated by the angle which the specimen swings up corresponding to the residual energy.
HT-8041B IZOD Impact Testing Machines

Brand: Hung Ta

Description

IZOD Impact Testing Machines

ASTM D-25S, JISK-7111, K-S911, K-S743, CNS-10425, 87255

• This tester is used to determine the energy required to break plastics, composites, and metallic materials. A notch is made at the center of a rectangular standard test specimen. Both ends are used as supports. Impact force is applied by releasing the pendulum. The energy required to break a specimen is calculated by the angle which the specimen swings up corresponding to the residual energy.

HT-8210 Rotary Bending Fatigue Testing Machines

Brand: Hung Ta

Description

This testing machine is used for fatigue strength tests of metals or various industrial materials and assures easy operation. Furnished two hollow rotation shafts on the left and right sides of strongly built steel frame base with accelerating high speed rotation to the test specimen fixed on both ends, also applied loads to the both ends of hollow rotation shaft then effect uniform bending strength to the test specimen.

HT-8296 Electro-Hydraulic Servo Horizontal Tensile Testing Machines

Brand: Hung Ta

Description

Application

• Suitable for testing longer specimens like wire, cable, connecting rod, steel wire, steel cable, steel link, metal chain, chain assembly, spring, webbing, rope, anchor chain, hook, piping, metal fasteners ... etc.
• Confirming to most international standards like ISO 7500-1, EN 10002-2, BS 1610, DIN 5122, ASTM E4, JIS 7721/ B 7733, GB 228-2010, JGG 139-1999, CNS 2111, 9471, 9470 ... etc.

Measurement Device

• Hydraulic control system or servo control hydraulic system. Apply high accuracy load cell.
• Testing gain force automatic switching function; if the capacity reach 100%, it automatically witch the large capacity.
• Accuracy: ±1%. Load Resolution :1 / 200,000 above
• Display a variety of experimental curves : Load-Elongation, Load-Time, Elongation-Time, Stress - Strain
HT-8336 Low Profile High Precision Load Cell

Brand: Hung Ta

Description

- With excellent linearity owing to small change of structural area.
- With excellent symmetry, available to withstand a large eccentric of lateral load.
- Low profile, with low deflection under load.
- With even heat compensation.
- Material with high stiffness and low deflection, with better overload protection.
- Tensile and compression type.
- Wide range of measuring 5 - 5000 kN.

HT-8391 Computer-Controlled Servo Hydraulic Concrete Compression Testing Machines

Brand: Hung Ta

Description

- Specially designed for compression test of concrete. Control and easy operation is the basic principle of design.
- HT-8391 C is the traditional hydraulic & manual control system with the digital indicator (available to display load & stress speed) can be selected as optional.
- High precision servo control and simple-operated program improves effectively the convenience and reliability of test.

HT-8752 MOONEY VISCOMETER (MV)

Brand: Hung Ta

Description

This unit is used to test the properties of natural rubber, including Mooney viscosity and Mooney scorching. Full computer control, capable of displaying Tq3, Tq5, Tq18, TQ35, TS1 and TS2.

Automatic Measurement System

- Viscosity Sensor: Strain Gauge.
- Mooney viscosity calibration: Fuzzy logic computer system.
- Manual / auto switching system for easy learning and operation.
- Full computer control, pull-down menu, displays in dialogue box and control system.
- Monitoring throughout the entire test; what you see is what you get.
- Automatic calculation, printing and saving are possible. Capable of calling the curves desired 4+1 minutes and 1 minute of recovery time for viscosity and rubber, respectively, and time needed for rubber scorching Tq3, Tq5, Tq 18, TQ35 by Ts1 and Ts2.
- Capable of saving and calling test conditions to save time.
- Allowable tolerance for test curves is user definable for complete control of test subject quality.
- Capable of calling any curve for comparison and displaying the viscosity of any point on the curve.
- The user may select multiple test values for averaging.
- Test may be terminated according to test requirements. The user may ask for test data or just cancel the test.
- This unit is designed to ASTM D 1646, BS1673, ISO-289, JIS-K6300 and CHS 10273 and 10274.
**Brand**

Hung Ta

**HT-9501 Electro-Hydraulic Servo Universal Testing Machines**

**Description**

**Functions & Features**

High Precision, High Stiffness Structure.
FDC55 high strength casting material, driving screws and high stiffness axle materials, strong structure, high stability, long durability. Hydraulic system adopts high efficiency pump and high conversational servo valve, with excellent filtration. Cooling system matches special oil tank makes operations safe, stable and precise.

High Accuracy, Super Control Ability Adapt high accuracy load cell, accuracy of load reach ± 0.005 %, with stable load induction, high accuracy, high stability. No gap shaft production procedure. Force Accuracy reaches first class, ± 0.5 class, displacement resolution up to ± 0.5, conform the international testing standard.

High Efficiency, Easy Operation High accuracy motor, transfer force stability, durability and safety, remote control convenient, cross head adjustment safety.

Standardization, Modularization
Standardized jaw holder specification, available to replace economic, convenient and speedy, Mechanical hydraulic grips easy and convenient to interchange, available for compression, bending and shear.

Multi-Function. High Performance Multi Purpose Application test program, available to test various material and products, for conducting tensile testing, compression, shear, peeling and displacement measurement, and also available to be equipped with high/low temperature equipment for environmental testing.

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**ET40D Dual-Frequency & Four-Channel & Intelligent Eddy Current Detector**

**Description**

ET40D Dual-Frequency & Four-Channel & Intelligent Eddy Current Detector is a new generation of eddy current nondestructive testing equipment, it adopts the most advanced FPGA,DSP digital electronic technology, eddy current technology and micro processor technology, multi-channel real time detection technology can detect ferromagnetic and non ferromagnetic metal pipe inner wall and the outer wall defects effectively. The DSP/FPGA high speed data processing circuit, ensure the high sampling rate and low noise instrument, preventing the false or false positives. ET 40D with two independent detection channels and two independent adjustable detection frequencies, can get two different frequencies reflect the differential, absolute vector signal, detection and wall thickness measurement at the same time. ET40D used advanced eddy current impedance plane and timebase technology design, not only debugging and operation, and is reliable, stable and sensitive detection capability.
ET20P Dual-channel & Intelligent Eddy Current Detector

Description

ET 20P dual channel intelligent eddy current flaw detector is a new generation of eddy current nondestructive testing equipment, it has adopted the most advanced FPGA, DSP digital electronic technology, eddy current technology and micro processor technology, multi-channel real time detection technology can effectively detect ferromagnetic and non ferromagnetic metal tube of outer wall defects and real time. The DSP/FPGA high speed data processing circuit, ensure the high sampling rate and low noise instrument, preventing the false or false positives. ET 20P adopts advanced eddy current impedance plane and scanning technology design, not only convenient to debug and operate, and with reliable, stable and sensitive detection capability. ET20P has two relatively independent detection channels, which can simultaneously obtain two absolute or two differential eddy current signals. Or by the combination of the absolute and differential coil probe, two detection channels for data acquisition at the same time, for the detection of metal tubes, rods in the production of longitudinal cracks and transverse defects (such as barge port).

ET20 Dual-channel & Intelligent Eddy Current Detector

Description

ET 20 dual channel intelligent eddy current flaw detector is a new generation of eddy current nondestructive testing equipment, it adopts the most advanced FPGA, DSP digital electronic technology, eddy current technology and micro processor technology, multi-channel real time detection technology can detect ferromagnetic and non ferromagnetic metal pipe inner wall and the outer wall defects effectively. The DSP/FPGA high speed data processing circuit, ensure the high sampling rate and low noise instrument, preventing the false or false positives. ET 20 adopts advanced eddy current impedance plane and timebase technology design, not only convenient debugging and operation, and has reliable, stable and sensitive detection capability. ET20 has two relatively independent detection channels, which can simultaneously obtain two absolute or two differential eddy current signals. Or by the combination of the absolute and differential coil probe, two detection channels for data acquisition at the same time, for the detection of metal tubes, rods in the production of longitudinal cracks and transverse defects (such as barge port).

URNDT Portable X-ray Flaw Detector

Description

URNDT offers a broad range of cutting-edge X-ray products designed to support all your industrial inspection needs. We develop specialized systems for use in areas such as aerospace, automotive, electronics, metrology applications and many more. Whether your component is measured in micrometers or meters, there's an URNDT systems that fits.

XXH Series Glass Tube Flat - Cone Panoramic X Ray Machine

Description

XXH Series Glass Tube Flat - Cone Panoramic X Ray Machine
XXGH Series Ceramics Corrugated Tube Cone Panoramic X Ray Machine

Description

XXGH Series Ceramics Corrugated Tube Cone Panoramic X Ray Machine

Roughness Tester Accessories

Description

We can supply:
- optional sensor surface
- Hole sensor
- measuring platform
- sensor
- an extension rod
- and other accessories.
TR200 Surface Roughness Gauge

Description

TR 200 portable roughness measuring instrument is a new product of Unirew Group Co Ltd, it is a portable stylus surface roughness shape measuring instrument, applicable to the workshop testing station, laboratory, metrology room environmental detection. Measurement of parameters in line with international standards of the United States, Germany, Japan and is compatible with Britain and other industrial developed country standards. Measurement results can be digital and graphic LCD display, also can be output to the printer.

DR 300 Surface Roughness Gauge

Description

Precision roughness tester DR300 is a high precision instrument testing the surface degree of finish, and can measure surface roughness of the
machines parts, including plane, bevel, outer cylindrical, surface, holes, trenches and axles and so on.
UH330 Portable Hardness Tester

Description

Advantages
- 2.7 inch OLED large screen
- Switzerland impact ball, with high quality stainless steel impact body
- Rechargeable Ni-MH battery. Continuous working more than 200 hours
- Max 500 groups memory

UHL 1300 Pen-type Portable Hardness Tester

Description

UHL 1300 is an advanced state-of-the-art integrated palm sized metal hardness tester which incorporate impact device and controller into one unit. Using our patent "two coils" technology, URNDT UHL 1300 gives out extraordinary high accuracy up to +/- 2HL and universal angle. It is no need to set up impact direction when taking measurements by any angle.

UHL 1300 will be used easily by menu operation even without operation manual. Its battery can be changed simply from USB port, also it has a customer re-calibration and statistic function.
Hardtest-II High Accuracy Portable Hardness Tester

Description

Main Application
- Die cavity of molds
- Bearings and other parts
- Failure analysis of pressure vessel, steam generator and other equipment
- Heavy work piece
- The installed machinery and permanently assembled parts
- Testing surface of a small hollow space
- Material identification in the warehouse of metallic materials
- Rapid testing in large range and multi-measuring areas for large-scale work piece.

UCT 210 Coating Thickness Gauge

Description

- Dot matrix LCD, 16 keys, metal shell
- 2 measuring modes: continuous / single
- 2 shutdown modes: manual / automatic
- Wide measuring range with 5 probes available (next page)
- Direct testing mode and block statistic mode (APPL/BATCH)
- Can connect with printer to out of statistical values
- Dataview to connect with PC with USB 2.0 port
- 500 datas can be stored
**UCT330 Coating Thickness Gauge**

**Description**

**Advantages**
- 2.7 inch OLED large screen.
- Rechargeable Ni-MH battery. Continuous working more than 200 hours.
- High speed thermal printer support the immediate printing function
- Max 500 groups memory.
- 2 measuring modes: continuous / single
- Wide measuring range with 5 probes available (next page)
- Direct testing mode and block statistic mode (APPL/Batch)
- Dataview to connect with PC with USB 2.0 port

**UCT950F Coating Thickness Gauge**

**Description**

**Features:**
- OLED display
- Two measuring methods: magnetic induction (F)
- Magnetic induction (F) method is to measure the thickness of non-magnetic coating on ferrous metal
- Automatic section of measuring methods
- 5 statistical ways: Mean value / Max Value / Min value / testing number (no.) / standard deviation (S.DeV)
- Upper-lower limit setting and sound alarm
- Data output to printer or PC by USB
- 500 readings can be stored
- 2 measuring modes: continuous/ single
- 2 stop ways: Manual / automatic

**Standard Delivery**
- Main unit 1
- Calibration Foil Set 1
- Substrate 2
- AAA 1.5V battery 2
- Waist pack for main unit 1
- Time certificate 1
- Warranty Card 1
- Instruction manual 1

**Optional Accessory**
- Dataview software
- Connecting cable
**UT 600 Ultrasonic Thickness Gauge**

**Description**

Ultrasonic Thickness Gauge measuring with ultrasonic wave, is applicable for measuring the thickness of any material in which ultrasonic wave can be transmitted and reflected back from the other face.

The gauge can provide quick and accurate measurement to various work pieces such as sheets of board and processing parts. Another important application of the gauge is to monitor various pipes and pressure vessels in production equipment, and monitor the thinning degree during using. It can be widely use in petroleum, chemical, metallurgy, shipping, aerospace, aviation and other fields.

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**MT 200 Ultrasonic Thickness Gauge**

**Description**

URNDT MT 200 Ultrasonic Thickness Gauge is a new generation of intelligent ultrasonic thickness gauge, using the latest high performance and low power consumption microprocessor technology, based on the principle of ultrasonic measurement, to measure the thickness of metal, glass, ceramics and other materials, and the materials of sound velocity measurement. It is widely used in all kinds of plate, pipe wall thickness, the boiler container wall thickness, all kinds of pipeline and pressure vessel, thickness measurement, monitor them in the process of using the degree of corrosion after thinning. With communication software, can be connected to computer.

**Main Function**

1) Suitable for measuring metal (such as steel, cast iron, aluminium, copper, etc), plastic, ceramic, glass, glass fiber and other any good conductors of ultrasonic thickness.
2) Can be equipped with a variety of different frequency, chip size, double crystal probe use.
3) Have probe zero calibration, a two-point calibration function, can be automatically on system error connection.
4) Thickness can be known the sound velocity measurement, in order to improve the accuracy of measurement.
5) With functions of coupling status alerts.
6) LED backlight display, convenient to use in dark environment.
7) The battery indicator function, can real-time display the battery remaining power.
8) With automatic power saving function dormancy, automatic shutdown, etc.
9) Small, portable, high reliability, suitable for bad operating environment,
Accur-1 Ultrasonic Thickness Gauge

**Description**

Accur-1 Ultrasonic Thickness Gauge is a new generation of intelligent ultrasonic thickness gauge, using the latest high performance and low power consumption microprocessor technology, based on the principle of ultrasonic measurement, to measure the thickness of metal, glass, ceramics and other materials, and the materials of sound velocity measurement.

VS-6467 Double Support Drop Test Machine

**Description**

Double support drop test machine

The bearing plate is magnetically controlled, and the test subject is free to fall in an instant. Maximum load: 65Kg, test height 40-200cm, test subject size 80x80x80cm, power requirements 220V 60Hz single phase.

Lifting method: using motor drive, height can be adjusted.

Test angle: angle, line and face of packaging container.

Micro switch: upper and lower limits are micro-switch to prevent accidental operation of the impact, to protect the machine.

Tape measure: with 200cm long roll tape, and the indicator can quickly see the actual scale movements.

Fall plates: the use of aluminum alloy material which does not rust, and falling noise is small.

Control button: The use of the button magnetic switch, only a light press on the DROP button, the plates can automatically fall, and can be adjusted up and down.

Lead screw pole: the level of fall with round lead screw pole, can lift up and down vertically and smoothly.

Control box: The machine and the control box are separated and can be controlled in a safer way to prevent the operator from injury due to falling.

Grinding rod: one spindle, one auxiliary shaft on the left and right, all use the grinding spindle to prevent swinging from side to side.
VS-1018 Single Arm Pneumatic Drop Test Machine

Description

Single arm pneumatic drop test machine
Option1: Clip-on fixture designed specifically for hand-held device testing.
Option2: digital control box, automatic lift control, can solve the problem of error resulted from observation of indicator more than 160cm test.
The swing arm system is controlled by the air pressure for fast and precise positioning. Maximum load: 65Kg, test height 30 - 160cm, swing arm platform size 29x50cm, power requirements 220V 50 / 60Hz single-phase, air pressure requires more than 5kg / cm².
Lifting method: using motor drive, height can be adjusted.
Test angle: angle, line and face of packaging container.
Micro-switch: upper and lower limits with micro-switch to prevent accidental operation of the impact, to protect the machine.
Tape measure: with 160cm long roll tape, and the indicator that can quickly see the actual scale movements.
Fall plates: the use of aluminum alloy material which does not rust, and falling noise is small.
Control button: The use of the button magnetic switch, only a light press on the DROP button, the plates can automatically fall, and can be adjusted up and down.
Leadscrew pole: the level of fall with round lead screw pole, can lift up and down vertically and smoothly.
Control box: The machine and the control box are separated and can be controlled in a safer way to prevent the operator from injury due to falling.
Grinding rod: The spindle with one ψ150 mm, which uses the grinding spindle, to prevent swinging from side to side.
Horizontal angle: There are four horizontal adjustable angles, with adjustable base level.

Cushion packaging design, packaging material selection, packaging contend design, drop specifications test.
VS-1019 Zero Distance Drop Test Machine

Description

Zero distance drop test machine
Option1: Clip-on fixture designed specifically for hand-held device testing.
Option2: digital control box, automatic lift control, can solve the problem of error resulted from observation of indicator more than 160cm test.
The swing arm system is controlled by the air pressure for fast and precise positioning.
Maximum load: 300Kg, test height 0-100cm, allowing measurementsample size 100x100cm, power requirements 220V single-phase, air pressure requires more than 5kg / cm².
Lifting method: using motor drive, height can be adjusted.
Test angle: angle, line and face of packaging container.
Micro switch: upper and lower limits with micro-switch to prevent accidental operation of the impact, to protect the machine.
Tape measure: With 100cm long rolltape, and the indicator that can quickly see the actual scale movements.
Fall plates: a group of 3-5 claws, the use of aluminum alloy material which does not rust, and falling noise is small.
Control button: The use of the button magnetic switch, only a light press on the DROP button, the plates can automatically fall, and can be adjusted up and down.
Leadscrew pole: the level of fall with round lead screwpole,can lift up and down vertically and smoothly.
Control box: The machine and the control box are separated and can be controlled in a safer way to prevent the operator from injury due to falling.
Grinding rod: The spindle with three ψ150 mm, all use the grinding spindle, to prevent swinging from side to side.
Horizontal angle: There are four horizontal adjustable angles, with adjustable base level.

Cushion packaging design, packaging material selection, packaging contend design, drop specifications test.
**Shock-5 Shock Tester**

**Description**

The main body of the machine is double-column type, and the table is stable when mounting, and the reliability is high.

The impact table is made of aluminum alloy, and of rigid strength.

When installation of fixtures and test objects, there are security protection devices.

The table lifting adopts the automatic lifting mechanism, and the number of tests can be arbitrarily set on the control box.

This machine can perform IEC 60068-2-27, 29; EIA RS-364-27; MIL-STD-1344A; JIS C0041; UL1642; UL2054; UN38.3.

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**Shock-50 Shock Tester**

**Description**

Shock-50 Specifications: Shock duration 1.5-30ms, shock peak acceleration 15-600G, table size 48x50cm.

Maximum load 50Kgw, shock wave is half sine wave (can buy square wave generator, after peak sawtooth wave generator). For the detailed specifications of other models, please contact us.

The main body of the machine is double-column type, the table is stable when mounting, and the reliability is high.

The impact table is made of aluminum alloy, and of rigid strength.

When installation of fixtures and test objects, there are security protection devices.

The table lifting adopts the automatic lifting mechanism, and the number of tests can be arbitrarily set on the control box.

This machine can perform IEC 60068-2-27, 29; EIA RS-364-27; MIL-STD-1344A; JIS C0041; UL1642; UL2054; UN38.3.
**VS-5060M/M-H Reactive Vibration Tester**

**Description**

The machine won the patent certification of the new type #131004.

VS-5060M / M-H is a unique reactive vibration testing machine, features are as follows:

Vertical vibration, the frequency range 5-100Hz, displacement 0-2.8mm (p-p), the maximum load 150Kg, vibration platform size 50x60cm. Power requirements 220V, 50 / 60Hz single phase.

The principle of centrifugal force, lateral motion is small, vibration uniformity of the table is good, in line with ISO5344 specifications. Adjustable without amplitude, the computer automatically calculates, with load compensation function, high test accuracy. English and Chinese computer operating screen, with a drop-down test parameter settings, the operation is very easy. Can display the amplitude, acceleration, vibration frequency, vibration frequency and vibration time immediately. With fixed frequency, sweep, multi-order random test function, can memorize unlimited test parameters and test report printing. No need for installation of foundation, the machine will not shake and low noise operation. Ergonomic design of the machine, safe and practical. The machine can perform MIL-STD-202F 201A, IEC 60068-2-6, IEC 60512-6-4, CNS C6343, UL 1642, UL 2054, JIS D1601, SAE-575E.

Our advantages recognized by the Industry:
- No consumables, not prone to failure.
- Customized countertops and models provide the best customer benefits.
- High performance, customer specified.
- Easy to move and easy to schedule.

Low frequency (5-100Hz) ; vehicle/ transportation/ package material products testing.

**VS-5060L Low Cost Type Reactive Vibration Tester**

**Description**

The VS-5060L is a basic vibration testing machine with the following features:

Vertical vibration, frequency range 5-100Hz, displacement 0-2.8mm (p-p), maximum load 150Kg, vibration platform size 50x60cm. Power requirements 220V, 50 / 60Hz single phase. Chinese and English computer operation screen, with drop-down test parameter settings, operation and parameter changes is very simple. Fixed frequency, sweep, multi-order random test function, can memorize the unlimited group of test parameters and test report printing. Displays amplitude, acceleration, vibration frequency, vibration frequency, and test run time immediately. The vibration machine operates with very low noise and easy operation. This unit can perform MIL-STD-202F 201A, IEC 60068-2-6, IEC 60512-6-4, CNS C6343, UL 1642, UL 2054, JIS D1601, SAE-575E.

Our advantages recognized by industry:
- No consumables, not prone to failure.
- Customized countertops and models provide optimum customer benefits.
- High performance, customer specified.
- Easy to move and easy to schedule.

Low frequency (5-100Hz) ; vehicle/ transportation/ package material products testing.
VS-3030LSS Desktop Type Reactive Vibration Tester

Description

ESS testing machine used in the production line, can proceed with a comprehensive test at the end.

Customized large table, the hollow can reduce the weight.

The permanent magnet type vibration machine for calibration is used to output fixed frequency and amplitude.

ESS testing machine used in the production line, with pneumatic fixture, fast fixed.

Desktop type reactive vibration machine, suitable for small test objects.

VS-16000VH Vibration Test Equipment

Description

Vibration test equipment: test by the digital controller to control the power amplifier to drive 160KN vibrator, the test object locked & fixed to the top of the table, and through the vertical platform or horizontal slide undergo separately up and down, back & forth, around the three-axis vibration test.

For the composite vibration test, we can proceed with our unique technology and design of the combination of temperature box and vibration machine.

Machine capability:

Maximum force
160KN

Frequency range
1-2100Hz

Maximum displacement
76mm (peak)

Maximum speed
2.0m / s (peak)

Maximum acceleration
100G

Vertical platform
150 * 150cm 600Kg

Resonant frequency
500Hz or more

Horizontal slide
200 * 200cm 690Kg

Resonant frequency
2000Hz or more

Inner box
100 (W) * 85 (D) * 100 (H) cm

Temperature range
-40 °C ~ 150 °C
Vertical Dynamic Electric Vibration Testing Machine

Model: VS-300V

Description

Special support airbag design, bearing capacity, independent suspension system, anti-eccentric load capacity.

The output shaft of the exciter is of light weight, strong rigidity, and the axial resonance frequency with more than 4000Hz, and with small useless force. The highest G value can reach the upper limit.

VS-300V vertical dynamic electric vibration testing machine features are as follows:

- Exciter with dual magnetic circuit design, with good body leakage isolation effect, can avoid interference with the test product.
- Air spring and laminated rubber with double vibration isolation system, vibration isolation effect is good, no need for installation of foundation.
- Low-impedance & high-performance design, can improve machine efficiency and reduce power consumption costs, high reliability, low failure rate.
- Use the computer online control, can achieve accurate control effect, and display the control curve of the function, the data input is stored immediately, with infinite memory space.
- Various control conditions of the table can be monitored by the screen during operation, such as vibration frequency value, amplitude, speed and acceleration and time, and easy parameter setting.
- This equipment can print the color test report, and can make the editing and the storage or the transmission.
- Protection measures a total of 18 items, such as over-voltage, over-current, over temperature, over-displacement and zero signal protection circuit, and a variety of abnormal status indicator.
- The company provides clip (fixture) with a dynamic analysis chart to ensure the reliability of the experiment.
- The machine can perform IEC 60068-2-6, 34; ISTA; MIL-STD-810E, 202F, 1344F, ASTM; EIA RS-364-28F; JIS D1601; SAE; CNS-3629.
- Our advantages recognized by the industry:
  - Triple-isolation design, excellent isolation effect, no need for installation of foundation.
  - The highest concept of equipment ---- no consumables, the lowest rate of damage.
  - Special design, the output shaft of the strong quality and of light-free with useless force minimal.
- For laboratory analysis, product design, production, quality control, quality assurance, and high frequency vibration test.

Environmental Test Chamber, Vibration Chamber

Description

VS-300V
Vibrochamber
Product Model: can be used with any dynamic vibration testing machine, according to the required operating space design.

High temperature or low temperature that causes the material characteristic of the specimen changes, may increase the vibration environment encountered when the incidence of functional degradation. If only a temporary variation occurs, temperature and vibration must be applied at the same time to obtain information about the degradation of such function.

Temperature extremes cause the resonance frequency drift of the specimen, which may lead to the vibration response of the specimen to magnify. Therefore, the temperature effect is especially important, and the environmental test of temperature, humidity and vibration is widely used.

This equipment system adopts the independent type, the vibration control system, the constant temperature and the constant humidity control system, may separately to the vibration, the high temperature, the low temperature, the temperature humidity individual test, or the union test. A need for a vibration machine can refer to the category of vibration machine introduction, and the machine can be designed with temperature and humidity box control.

SPUT Series Automatic Ultrasonic Inspection System for Middle Thickness Plate and Plate-strip

Description

Application field

Automatic detection system of steel, automobile, machinery, electricity industry of round billet, billet and other profiles, mainly covering aluminum rod (plate) and iron (board), copper (board), titanium rod (plate), and other types of alloy material automatic ultrasonic testing.

Application

Pipe material plate, Boiler and pressure vessel plate, Ship plate, stainless plate(strip) etc Automatic Ultrasonic Inspection System

Inspection technology:

1. Comb scanning or pendulum scanning inspect flat-bottom hole or notch
2. Plate edge adopts edge detection mode to detect lat bottom hole or groove

Test standard

- GB/T9711.1-1997 《Oil and natural gas industries transport Steel pipe Technical delivery conditions - Part 1》
- GB/T9711.2-1999 《Oil and natural gas industries transport Steel pipe Technical delivery conditions - Part 2》
- GB/T9711.3-2005 《Oil and natural gas industries transport Steel pipe Technical delivery conditions - Part 3》
- ISO3183-3 《USA pipeline specifications》

Technological advantage

1) Instrument parameters: Can meet EU standards （EN12668-1）, and the standard factory inspection, while providing European standard certificate.

2) Inspection Speed ( repeat frequency) : The line speed of up to 60 m/min. Repetition frequency up to 5 KHZ(And the detection rate is closely related to the technical specifications for the repetition frequency)
3) Channel Independence: Strict independence between channels, each channel has its own existence independent transmit and receive timing control

4) Instrument ability: To meet the higher testing standards or the actual needs of users, the number of channels can be expanded.

5) Modular design: convenient service

6) Machine design, processing, installation and debugging: large mechanical design team, trusted cooperative processing units, assembly debugging standard management, accumulated a wealth of experience in similar projects, supporting the well-known brands purchased parts.

7) Control segment: using well-known brand components and customer production lines matching OP operator terminal display operating status and fault information standard design

8) The system can boiler plate 100% scanning coverage

The mechanical structure form

- Gantry beam type (traditional)

- Can also be customized according to the specific requirements of the user site

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**SST Series Automatic Ultrasonic Inspection System for Seamless Steel Tube**

**Description**

**Application**

Structured tube, gas vessel tube, nuclear power tube, Line pipe and fluid tube, high pressure boiler tube, oil drill pipe and other seamless steel pipe

**Inspection technology**

1) Seamless steel pipe in the Longitudinal, transverse, layered defects and wall thickness measurement

2) Blind tube end: Longitudinal and layered detection ≤ 50mm

Transverse detection: ≤50+2×T (T is thick pipe)

3) Detection method:

- Water membrane coupling type (For large diameter thick-walled tube, simple adjustment)

- Water jet membrane coupling type (For small diameter thin-walled pipe, a small field near blind)

- Partial immersion type (Suitable for larger weight, the surface roughness of the workpiece)

- Dry coupling type (the electromagnetic ultrasonic method)

4) Eddy current testing system can be integrated, To realize ultrasonic and eddy current Joint automatic detection

**Test standard**
Technological advantage

1) Instrument parameters: Can meet eu standards (EN12668-1), and the standard factory inspection, while providing European standard certificate.

2) Inspection Speed (repeat frequency): The line speed of up to 60 m/min, Repetition frequency up to 5 KHz (And the detection rate is closely related to the technical specifications for the repetition frequency)

3) Channel independency: Strict independence between channels, each channel has its own existence independent transmit and receive timing control

4) Instrument scalability: To meet the higher testing standards or the actual needs of users, the number of channels can be expanded.

5) Modular design: convenient service

6) Machine design, processing, installation and debugging: large mechanical design team, Trusted cooperative processing units, assembly debugging standard management, accumulated a wealth of experience in similar projects, supporting the well-known brands purchased parts.

7) Control segment: using well-known brand components and customer production lines matching OP operator terminal display operating status and fault information standard design

8) C-scan thickness of image display, Thickness measurements show grade in at least 64 kinds or more, at the same time obtain circumferential and axial thickness distribution

The mechanical structure form

Fixed gantry type (Suitable for thick-walled and large-sized steel tube)

2) Moving bogie (Suitable for off-line testing)

3) Cantilever beam type (Suitable for online testing)

4) Can also be customized according to the specific requirements of the user site
WUT Series Automatic Ultrasonic Inspection System for Welded Pipe

Description

Application

- Spiral welded pipe (Double submerged arc weld, Pre-finish welding and so on weld bead and the full length over the pipe automatic ultrasonic testing)
- Longitudinally welded pipe (JCOE JOE) weld bead ultrasonic detection
- ERW, HFW and other ERW pipe automatic detection system

Inspection technology

1) Weld longitudinal and transverse defect detection, Weld blunt tandem border detection and weld heat-affected zone layered detection
2) Blind tube end: Longitudinal and layered detection ≤ 50mm
   Transverse detection: ≤50+2×T (T is thick pipe)
3) Detection method
   Spiral welded pipe: water membrane coupling type
   Longitudinally welded pipe: Water membrane coupling type or water jet membrane coupling type
   ERW pipe: water jet membrane coupling type

Test standard

API SPEC 5L 《Specification for Line Pipe》〈45th Edition〉
DEP31.40.20.37（2011）《Shell pipeline specification》
ASME A578/A578M-96 ASTM A53 ASTM A500 JIS G3444 GB/T 3091
Q/SY GJX 101-2010 《China oil pipeline construction project department gas pipeline with steel pipes General technical conditions》

Technological advantage

1) Instrument parameters: Can meet eu standards (EN12668-1), and the standard factory inspection, while providing European standard certificate.
2) Inspection Speed (repeat frequency): The line speed of up to 60 m/min, Repetition frequency up to 5 KHZ (And the detection rate is closely related to the technical specifications for the repetition frequency)
3) Channel independency: Strict independence between channels, each channel has its own existence independent transmit and receive timing control
4) Instrument scalability: To meet the higher testing standards or the actual needs of users, the number of channels can be expanded.
5) Modular design: convenient service
6) Laser tracking: Dynamic Tracking Accuracy: ±1mm,
   Tracking range: ±100mm,
   Tracking speed: ≥80mm/Secs (Independent research and development of a complete set of system)
7) Machine design, processing, installation and debugging: Large mechanical design team, trusted cooperative processing units, assembly debugging standard management, accumulated a wealth of experience in similar projects, supporting the well-known brands purchased parts.

8) Control segment: using well-known brand components and customer production lines matching OP operator terminal display operating status and fault information standard design.

The mechanical structure form

1) Gantry beam type (traditional)

2) Truss structure

3) Sidewall beams form

4) Can also be customized according to the specific requirements of the user site

**Technological advantage**

1) Instrument parameters: Can meet EU standards (EN12668-1), and the standard factory inspection, while providing European standard certificate.

2) Inspection Speed (repeat frequency): The line speed of up to 60 m/min, Repetition frequency up to 5 KHZ (And the detection rate is closely related to the technical specifications for the repetition frequency)

3) Channel independence: Strict independence between channels, each channel has its own existence independent transmit and receive timing control

4) Instrument scalability: To meet the higher testing standards or the actual needs of users, the number of channels can be expanded.

5) Modular design: convenient service

6) Laser tracking: Dynamic Tracking Accuracy: ±1mm,

   Tracking range: ±100mm,

   Tracking speed: ≥80mm/Secs (Independent research and development of a complete set of system)

7) Machine design, processing, installation and debugging: Large mechanical design team, trusted cooperative processing units, assembly debugging standard management, accumulated a wealth of experience in similar projects, supporting the well-known brands purchased parts.

8) Control segment: using well-known brand components and customer production lines matching OP operator terminal display operating status and fault information standard design.

The mechanical structure form

1) Gantry beam type (traditional)

2) Truss structure

3) Sidewall beams form

4) Can also be customized according to the specific requirements of the user site
HSF1 Type Electromagnetic Ultrasonic Thickness Gauge

Description
The HSF1 Electromagnetic Ultrasonic Thickness Gauge is a new portable electromagnetic ultrasonic thickness gauge that uses EMAT probes to detect any metal or magnetic material. The instrument work without coupling agent, detection speed quick, repeatability, and can be used for high temperature workpiece (up to 600 °). Probe and the measured object is not in direct contact with the surface roughness, surface coating (paint, rust, etc.) of the material testing.

Performance
- Innovative development of non-contact thickness measurement instrument (probe suspended), to subvert the traditional.
- HD TFT color high resolution screen display, without glare effect.
- Small body, function, waveform, measurement results at a glance.
- The measurement accuracy is higher than that of the conventional longitudinal wave thickness measurement, and the measurement is more relaxed by using the method of transverse wave vertical incidence.
- Electromagnetic method to excite the ultrasonic wave, the work-piece is the source of the ultrasonic wave, not affected by the angle, the measurement results and the probe zero bias is not related, the measurement accuracy is higher.
- The probe can be lifted, and the thickness of the rough work-piece with the oxide skin and the paint layer can be measured.
- In testing, do not need coupling agent, no impact on the environment, reduce human and material resources and financial resources.
- Large temperature range, high temperature environment, the use of large thickness measurement, and no high temperature coupling agent, such as high value of the material consumption, low cost.

Technical Parameters
Display: 4.3”TFT LCD
Sampling frequency: 10bit/200MHz
Bandwidth: 500kHz-8MHz
Excitation voltage: 600V
Work-piece temperature range: -10°C to 600°C (based on different probes)
Detection range: 1mm~200mm (extensible to 400mm)
Measurement accuracy: 0.01mm
Lift off height: 3mm
Excitation mode: permanent magnet (electromagnetic mode can be customized)
Gain: 0-80dB (adjusting precision 0.1dB/2dB/6dB)
Equivalent input noise: < 80 * 10-9V/Hz1/2
Attenuator precision: < + 1dB/12dB
Vertical linear error: < 3%
Horizontal linear error: < 0.2%
Detection mode: positive and negative detection, detection and RF
Battery: 7.4V DC, lithium battery, continuous work for 4 hours
Weight of the whole machine: 0.75kg

Standard Configuration
1. Host one
2. Charger one
3. Lithium battery one
4. Probe line (0L2-0L2) two
5. Hand-held electromagnetic thickness probe one
6. Data cable one
7. Analysis software CD one
8. Hand band one
9. Instrument box one
10. Instructions, certificate, warranty card each one

HS900H Electromagnetic Ultrasonic Detector

Description
HS900H is a multi-functional one-piece handheld integrated piezoelectric guided wave testing, electromagnetic ultrasonic guided wave detection, thickness measurement of multi-functional machine, testing can cover a variety of plates, rods, pipes and metal containers workpiece detection multi-function instrument.

HS900H Features:
- Features: For a variety of workpiece and the environment, integrated piezoelectric and electromagnetic multi-function detection machine
- Medium-frequency low-frequency piezoelectric guided wave detection:
  Detection of objects: rods, tubes, rods, matching piezoelectric probe in the distance pipeline testing, lamppost corrosion and other internal and external injury testing;
- Middle distance high frequency electromagnetic guided wave detection:
  Detection of objects: plates, rods, pipes, containers and other parts inside and outside defects, matching electromagnetic guided wave probe, can stimulate the Lamb wave, SH wave (horizontal shear wave) on the pipe, flat on the inside and outside the defect detection, surface waves Probe shell detection of the workpiece crack, corrosion, notch and other defects, body wave probe bubble, stratified injury, butt weld in the weld penetration, not fusion and other defects;
- High-frequency electromagnetic thickness measurement: Test objects: difficult to process materials and pressure vessels, such as cast steel, cast iron, austenitic stainless steel, matching electromagnetic thickness probe, the workpiece can be accurately measured at high and low
HS 900H Technical parameters:

Instrument parameters

Ø Display: 8.4 inch 24 bit TFT_LCD true color display (resolution 800 x 600)

Ø Data Storage: Internal 32GB-SSD storage, external USB can be stored directly

Ø Alarm: 1

Ø Power supply: AC220 - DC15V AC adapter, 11.1V lithium battery

Ø Battery life: ≥ 6 hours;

Ø Operating temperature range: 0 ℃ - 45 ℃;

Ø Storage temperature range: -0 ℃ - 50 ℃ (including battery);

Ø Size: 250 × 180 × 75 (mm)

Ø Weight: ≤ 3.5Kg (including battery);

Ø External interface:

1) Communication Interface: USB2.0 × 2, 100M / 1000M LAN × 1, VGA × 1;

2) Encoder Interface: with scanner position information record interface (encoder interface), 2;

3) Storage: Internal hard disk, the capacity should be ≥ 32GB;

4) External Preampilifier composite cable interface;

5) Single piezoelectric channel

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HS900L Electromagnetic Ultrasonic Low Frequency Guidewave Detector

Description

S 900L Performance Features

- Apply to specific wire rope, rebar, screw thread steel for long distance corrosion detection;

- Integrated design, light weight, small size, easy to carry, nice appearance, combining display data and acquisition;

- Small attenuation, transmitting distance up to 300 m;

- One-way detection distance up to 50~150, high efficiency of detection, Directional emission (positive and reverse, two-way), no need coupling agent;

- Single receiving channel with functions of direction control using 2 way emission to control the direction of electromagnetic ultrasonic testing;

- The functions of directional transmission (positive and reverse, two-way)

- Image intuitive and easy to learn and use;

- The function of dispersion curve of ultrasonic guided wave mode
- The functions of 64 order for echo signal digital filter and wavelet denoising, digital average and the denoising process does not affect the wave height and accuracy;
- The function of an automatic calibration guided wave velocity .
- The functions of storing all data records and data analysis on instrument or on computer;
- The connecting cable between instrument and probe adopts double shield structure, which makes stronger anti-interference ability;
- Modular battery, double batteries and double charger.

**Performance**

**HS Q7 special advantage:**

→ Shape smart, weighing less than 300 grams, like a cell phone easy to carry;

→ Handwriting touch, hotkey button dual operation at your disposal;

→ Bright color screen 4.3-inch TFT-LCD, no limit;

→ High-performance safety and environmental protection lithium battery, one machine two power two charge, high quality;

→ All metal shell, product protection, quality enjoyment;

→ USB communication interface, C5 probe interface, convenient and quick;

→ 1000 injured wave storage, at least 4 hours of dynamic waveform sustainable storage;

For the new rules and professional design;

→ Weld groove form, accurate positioning, showing real;

→ Crack altimetry, using diffraction waves automatically calculate the height of the defect.

**HS900L Technical Parameters**

**Instrument Parameters**
- Dimensions Of Display Screen: 8.4inch 24-digit true color display
- Data Storage: Internal 32GB, external USB can be directly stored
- Expansion Interface: USB2.0×2, 100M/1000M LAN×1, VGA×1
- Alarm: 1
- Operating Temperature: 0–40°C
- Storage Temperature: -20°C-65°C
- Power Supply Mode: AC220-DC15V adapter, 11.1V lithium battery
- Working Hours: 8 hours (single battery)
- Dimensions: 250×180×75（mm）
- Weight: 2.7Kg (including battery)

**Transmitting Parameters**
- Output: The differential output
- The Type Of Wave: Square wave
- Excitation Pulse Number: 1-20 continuously adjustable
- Excitation Pulse Rate: 10KHz-150KHz continuously adjustable
- Excitation Pulse Strength: 300Vpp-500 Vpp
- Output Current: up to 15A

Receiving Parameters:
- Input: Differential input clamp
- Input Impedance: < 50Ω
- Repetition Frequency: 5-50Hz
- Sampling Frequency/Figures: 20MHz/14Bits
- Bandwidth Range: 10KHz-150KHz
- Detection Methods: The positive and negative detection, The detection and radio frequency waves
- Range stepping adjustment: 1mm (transverse wave)
- Gain (attenuator) stepping adjustment: 80dB/0.1, 2.0, 6.0
- Precision Attenuator: < ±1dB/12dB
- The Equivalent Input Noise: < 80×10-9V/Hz1/2
- Vertical Linear Error: < 3%
- Horizontal Linear Error: < 1%
- Dynamic Range: ≥30dB
- Detection Range: Maximum 300 m
- Excitation Mode: Permanent magnet

Offline Analysis Evaluation Function:
- Analysis software can work offline and easy to operate.
- Analyzing and evaluating all records of test results, regenerate curve and the test results
- Output test results and statistics report of defect.
- The Report Form: Word document

TOFD dual screen module

Description
The TOFD dual-screen dual control module is designed for complex and demanding use environments. It can be adjusted by a single person via a screen-attached device. With the scanning, the detection efficiency and detection quality are greatly improved, and the host can be exposed to high-altitude and other dangerous environments by placed in a backpack to maximize the safety of people and equipment.

Performance
- New patent configuration, the first dual screen TOFD, dual display dual control;
HS810 portable TOFD ultrasonic detector

Description

HS810 multi-channel TOFD ultrasonic detector is the main instrument of national qualification forensics (TOFD Level II personnel training assessment model machine). The instrument meet NB / T 47013, EN12668, BS 7706, ASTM, ASME, ENV583, CEN 14751 , NEN 1822, DNV, API, RBIM and other standards and new regulations, specifications of the pot regulation, compatible with the EU EN12668-1: 2010 standard, can be a one-time scan full coverage of 200mm thickness weld (which can be expanded to 400mm) Synthetic Aperture Focusing (SAFT) with defect length measurement (recommended by NB / T 47013.10-2015), and with
long life time, high detection efficiency and user-friendly operation interface. The instrument has been upgraded several times to make it more practical, can realize on-site remote control and automatic scanning. The instrument detector one-time pass the testing of China Special Equipment Inspection Institute and access to Class B certificate. Our company provides customized services to meet the special requirements of enterprises and provide on-site special testing requirements of manual, automatic scanner and hardware configuration customization services.

**Performance**

A Special advantage

- With Chinese/English operation menu.
- With high light TFT screen; Background color and brightness can be set according to environment; clear display under high-light or low-light environment.
- Testing with ultrasonic diffraction signal, solve the limitation and insoluble of convention ultrasonic testing which only use A-scan
- Intergred with A scan, B scan, TOFD imaging and guided wave imaging
- With Synthetic Aperture Focusing Technique (SAFT), improve defect measurement accuracy
- With stable waveform, high SNR (Signal to noise ration), identify the defects more clearly
- With built-in detection process standards, and the instrument can help user automatically generate detection process
- Using a scanner instead of holding probe with hand, more quickly, more steady and more accurate
- TOFD testing with multi-channels, cover all area of weld saw
- With large storage space and the testing data can be transmitted through the network
- The instrument shell is made by polymer composites, shockproof and drop resistance
- Integrated data cable with low transmission loss
- High performance security lithium, module plug, one machine two power, long endurance.
- Designed according to EN12668-1 : 2000 standard, with Chinese and English certificate

B: Flaw Detector features

- Scanning mode: non-parallel and parallel scan for weld
- Defect location: analysis software directly read out the defect location, depth and its height
- Defects display: Visual display the location of the defect in the workpiece and the vertical endpoint
- A-scan: RF A-scan waveform improve evaluation capacity of defect signal
- B-scan: demonstrate the cross section with defects
- TOFD imaging: display the weld saw section with scan dimension and depth dimension, the location, length, depth and height of defects will be demonstrated
C: Testing scope
- Zoned coverage of 200mm thickness with multi-channel TOFD and PE testing, can be extended to cover 400mm thickness

D: Data analysis
Through Wave Removal: special tool to process near-surface defect, improve near-surface defect analysis accuracy
Horizontal and Vertical Shift: Meet different operation habit
SAFT: Effectively improved the defect measurement accuracy

E: Data record and output
Testing parameters can be preset, loaded, saved, edited, printed and sent to PC easily.
One-time 40m TOFD scan reach large data record storage
The testing data, image can be auto named and auto-saved.
The testing data, image can be saved, loaded, analyzed, printed and send to PC easily
With USB2.0, LAN and VGA communication interfaces

**Technical Parameters**
More connected to the probe at the same time: 10
Pulse type: negative square wave pulse
Pulse front: <10 ns
Pulse width: 50 ns-1000ns continuously adjustable
Impedance matching: 25Ω / 500Ω adjustable
Scanning range: zero interface incident - 14000mm steel longitudinal wave
Sampling frequency / digits: 125MHZ / 12bits
Sampling depth: 512/1024 adjustable
Repeat frequency: 25-800Hz adjustable
Average waveform: 1-8 adjustable
Detection method: digital detection
Attenuator accuracy: <+ 1dB / 12dB
Sound speed range: 300 ~ 20000 m / s
Dynamic range: ≥30dB
Vertical linearity error: ≤4%
Horizontal linearity error: ≤ 0.3%
Resolution: > 36dB (5P14)
Sensitivity margin: > 60dB (deep 200mmΦ2 flat-bottomed hole)
Waveform display: radio frequency, detection (full-wave, negative or
positive half-wave), the signal spectrum (FFT)

Imaging mode: According to the selected operating mode and the corresponding instrument settings display A scan, B scan, D scan

Line scan length: 0 ~ 40000 mm automatically scroll

Record method: Completely raw data record

Instrument Software: The instrument software should have SAFT (synthetic aperture focusing) function, differential, straight wave pull function

Off-line analysis software: Off-line analysis software should have SATF (synthetic aperture focusing) processing functions

Offline analysis software with image processing and processing of the same screen contrast display

Offline analysis software should have the ability to convert TOFD images directly to BMP bitmaps

Offline image analysis: A-scan waveform recorded during recovery and playback scan.

Defect size and contour.

Thickness / amplitude data statistical analysis.

Record conversion to ASCII / MS Word / MS Excel format report.

Data Report: Direct Print Checklist, A-Scan, Spectrogram, B-Scan Image, C-Scan Image, CB Image, TOFD Image, D-Scan Image, P-Scan Image.

Memory: 1 G

Flash - Quasi HDD: 4 G

Output: LAN, USB2.0, VGA

Display: 6.5 "High Brightness True Color High Resolution (32 bit) SVGA 640 × 480 pixels 133 × 98 mm, daylight readable LCD; maximum A size 130 × 92 mm

Control: front plate sealed keyboard, mouse, shuttle

Compatible with external devices: USB keyboard and mouse, USB flash memory card, printing via USB or LAN, PC connection via USB or LAN, SVGA external monitor

Instrument operating system: winCE operating system, anti-virus ability


Detection of data transmission: Detection of signal and encoder data should be used in the form of a single integrated cable signal input equipment, and composite cable integrated body

Scanner device: Should be equipped with a scanner, and have a strong magnetic wheel compression spring coupling device

Factory inspection: The instrument passed the authentication of scientific and technological achievements organized by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China

Packaging: Imported high-strength hard plastic box
HSPA20 portable practical multi-function phased array ultrasonic detector

Description

Ultrasonic phased array is a combination of ultrasonic probe chip, arranged by a number of piezoelectric chip according to a certain regular distribution, and then sequentially by a predetermined delay time to stimulate the various wafers, all the ultrasonic waves emitted by the chip to form a whole wavefront, in order to achieve beam displacement, beam deflection and beam focusing and other characteristics, to achieve a variety of testing purposes.

Ultrasonic phased array technology has nearly 20 years of development history. Early mainly used in the medical field. Initially, the complexity of the system, the complexity of the wave propagation in solids, and the high cost of cost make it limited for use in industrial non-destructive testing. However, with the rapid development of electronic technology and computer technology, ultrasonic phased array technology is gradually applied to various industries such as industrial non-destructive testing, boilers, pressure vessels, railways, aerospace, petroleum and petrochemicals, electric power and universities.

Since 2005, our company has developed the domestic ultrasonic phased array detection system. In 2010, it officially launched the first industrial-grade ultrasonic phase array detector HSPA10 with Chinese proprietary intellectual property rights to fill the gaps in China and won multiple patents and national invention awards. In 2014, we successfully launched the small and highly integrated HSPA20 phased array instrument, which is the new generation product with the lightest volume, the most extensive integrated functions and the most complete built-in process at home and abroad.

Performance

→ Phased array, TOFD, A-scan three-in-one, with PA + 2 / 4TOFD + A scan function, key switch, defect validation more efficient;

→ small size, light weight, easy to carry, worry-free outdoor and high altitude;

→ 32: 32 simultaneous transmit and receive, high integration, better imaging;

→ The new routing of operation menu, similar to conventional A super-device operating procedures, easy to learn and easy to use;

→ High-sensitivity touch-screen button, double-mode shuttle knob operation, more convenient;

→ Built a large number of open model of the workpiece, the defect display is intuitive, the analysis of shaped structure easier;

(Suitable for flat welds, "T" welds, fillet welds, pipe welds, forgings, plates, axles, rims, etc.)

→ With T, K, Y, flat welds and other parts of the flip function, the image...
more intuitive;

→ With focused sound ray simulation function, real-time display of the relationship between the focus point of the simulated sound wave and the weld groove;
→ 60Hz refresh rate, dynamic graphics better, faster display
→ Full angle TCG / DAC curve compensation function;
→ ACG angle compensation, playback, correction function;
→ full dynamic focus, focusing performance, defect results more accurate;
→ A / B / C / D / S / L / TOFD / 3D multiple image display, defect analysis is more comprehensive;
→ With depth gate, sound gate automatic alarm function, defect identification more efficient;

With coupling monitoring function;

With no test block module automatic calibration function;
→ Support encoder scan and record fully and automatically.
→ With the probe, wedge, parameters, data, reports and other documents classified editing;
→ With automatic report of flaw detection output print function.

**Instrument parameters:**

→ Display Size: 8.4 inches, 24-bit true color display
→ Data Storage: Internal 16GB, external USB can be stored directly
→ Expansion Interface: USB2.0 × 2, 100M / 1000M LAN × 1, VGA × 1
→ Encoder interface: 1 (supports two encoder connections)
→ Alarm: 1
→ Operating temperature: 0-45 °C
→ Storage temperature: -20 °C -65 °C
→ Power supply: AC220-DC15V AC adapter, 11.1V lithium battery
→ Life time: 8 hours (single)
→ Size: 265 × 180 × 75 (mm)
→ Weight: 2.7Kg (with battery)

Phased array function parameters:

→ System bandwidth: 0.5-15MHz (-3dB)
→ Digitization frequency: 100MHz 8bit
→ Digital sampling point: 8192
→ Digital smoothing average: 16
→ aperture: 32 wafers
→ S sweep beam: 256
→ Repeat frequency: 1.0KHz-5.0KHz
HS PA20-F Type Portable Practical Multi-function Phased Array Ultrasonic Detector

Description

Ultrasonic phased array is a combination of ultrasonic probe chip, arranged by a number of piezoelectric chip according to a certain regular distribution, and then sequentially by a predetermined delay time to stimulate the various wafers, all the ultrasonic waves emitted by the chip to form a whole wavefront, in order to achieve beam displacement, beam deflection and beam focusing and other characteristics, to achieve a variety of testing purposes.

Ultrasonic phased array technology has nearly 20 years of development history. Early mainly used in the medical field. Initially, the complexity of the system, the complexity of the wave propagation in solids, and the high cost of cost make it limited for use in industrial non-destructive testing. However, with the rapid development of electronic technology and computer technology, ultrasonic phased array technology is gradually applied to various industries such as industrial non-destructive testing, boilers, pressure vessels, railways, aerospace, petroleum and petrochemicals, electric power and universities.
Since 2005, our company has developed the domestic ultrasonic phased array detection system. In 2010, it officially launched the first industrial-grade ultrasonic phase array detector HSPA10 with Chinese proprietary intellectual property rights to fill the gaps in China and won multiple patents and national invention awards.

In 2014, we successfully launched the small and highly integrated HSPA20 phased array instrument, which is the new generation product with the lightest volume, the most extensive integrated functions and the most complete built-in process at home and abroad.

In 2016, it launched HSPA20-F 128 receive / 64 excitation channel phased array, 64 channels parallel digital-analog conversion and real-time phase control.

**Performance**

- 128 Receive / 64 transmit channel phased array, digital to analog conversion support concurrent 64-channel operation, real-time phase control
- Combined Phased array, TOFD, A-Scan into one unit, key switch and free verification, easy to detect flaws
- Brand new procedural operation mode, easy to learn and use, easy to generate curve.
- The simulation function of multiple workpiece structure, make defect display intuitive and clear.

(Use for detection for flat weld, "T" type weld, fillet weld, pipe welding, forging, metal plate, shaft, wheel rims and other workpieces)
- The simulation function of CAD Import of weld model.
- Integrated the function of sector scan flip welding seam
- Support for linear scanning, serial scan, sector scan, dual crystal scan (one sending, one receiving) scan, two-dimensional focusing scan and other scan modes;
- Coupling monitoring function
- Set display function of C-scan area
- Up to 60Hz display refresh rate, better graphic dynamic effect
- Full angle DAC curve generating and dB correction function.
- Entirely dynamic focusing makes performance better.
- Automatic alarm function for high gate and sound path gate, more efficient defect identification.
- Support the function of the full trip scan and record of encoder

**Technical Parameters**

**HSPA20-F Technical Parameter Detector Parameters**

- Display Size: 10.4 inch 24 color display, resolution 1024*768
- Data storage: Integrated 32GB, external USB drive can be stored directly
- Extended Port: USB2.0×2, 100M/1000M LAN×1, VGA×1
- Encoder Port: 1 (Support two encoder connections)
- Alarm: 1
- Working temperature: 0—40°C
- Storage temperature: -20°C – 65°C
- Power Supply Mode: AC220 – DC15V AC adapter, 11.1V Lithium battery
- Working hours: 4 hours (Single Battery)
- Size: 340×290×105 (mm)
- Weight: 4.7Kg (Battery included)

**Phased Array Function Parameter**

- The number of element: 64/128
- Bandwidth: 0.5-15MHz (-3dB)
- Digital frequency: 100MHz 8bit
- Digital sampling point: 8192
- Digital smoothing average: 16
- S-scan harness: 256
- Repetition frequency: 1.0KHz-5.0KHz
- Display refresh rate: Up to 60Hz
- Delay line precision: 2.5ns
- Detection mode: Positive detection, negative detection, full detection, radio frequency
- Launch delay range: 0-20us
- Transmitting voltage: 50V-100V
- Pulse width: 30ns-500ns (step 10ns)
- Pulse transmit mode: Negative square wave
- Gain range: Analog gain 0 – 80 dB
  Digital gain 0 – 30 dB
- Gain stepping: Analog gain 0.1 dB, digital gain 6 dB
- DAC: 16 point
- TCG: 16 point
- Focusing: Transmit single point focusing and receive dynamic focusing
- Scanning image: A/C/D/S/L

**TOFD Module parameters**:

- Bandwidth: 0.5-15MHz (-3dB)
- Digital frequency: 100MHz 10bit
- Digital sampling point: 1024
- Digital averaging: 16
- Repetition frequency: 100Hz-1KHz
- Display refresh rate: Up to 60Hz
- Detection mode: Positive detection, negative detection, full detection, radio wave
- Transmitting voltage: 50V-350V
- Pulse width: 30ns-500ns, (step 10ns)
- Impedance matching: 25Ω-500Ω
- Pulse excitation mode: Negative square wave
- Gain range: 110 dB, Minimum adjustment precision 0.1 dB

Digital Brinell Hardness Tester

Description

The Digital Brinell Hardness Tester, offered by us stand out of all others right from quality, preciseness and reliability. We are a renowned Manufacturer and Supplier of Digital Brinell Hardness Tester from Malaysia. We make use of quality tested raw materials for their production in order to enhance its performance. Our Hardness Tester is reasonably priced!

More about Digital Brinell Hardness Tester:
Brinell hardness test is mainly used in hardness measurement for cast iron, steel products, nonferrous metals and soft alloys, etc. Besides it can be also used in hardness measurement for some non-ferrous materials, such as plastics, Bakelite, etc. It is applicable to factory, workshop, laboratory, university and college, and scientific research institution.

The digital Brinell hardness tester is to use a steel ball of a certain diameter to press on the substance surface to be tested with specified test force. Through the specific time of holding test force, remove it and measure the diameter of the indentation of the specimen surface with reading microscope. Take the two points d1 and d2 and input them and on the LCD screen appears the Brinell hardness value.

Technical Specifications:
- Test Force:
  - 612.9N (62.5kg)          4903N (500kg)
  - 980.7N (100kg)           7355N (750kg)
  - 1226N (125kg)           9807N (1000kg)
  - 1839N (187.5kg)        14710N (1500kg)
  - 2452N (250kg)          29420N (3000kg)

- Hardness Measurement Range: 8~650 HBW
- Amplification of Reading Microscope: 20 times
- Minimum Division Value of Micrometer Drum Wheel: 0.00125mm
- Maximum Height of Sample: 220mm
- Distance from Indenter's center to Instrument Body: 135mm
- Voltage of Power Source: AC220V/50Hz
- Dimension (L×W×H): 753*550*236mm
- Weight: 123kg

Model MHB-3000 Digital Brinell Hardness Tester one

Digital Rockwell Hardness Tester (HRS 150)

Description

The company is engaged in offering superior quality Digital Rockwell Hardness Tester (HRS 150) to all the buyers from all over the country. Its precise design, longer service life and 100% accurate results have attracted so many buyers over the years.

More about Digital Rockwell Hardness Tester (HRS 150):
Hardness is one of the important mechanic characteristics of the material
while the hardness testing is an important method to judge the quality of the metal material or its component parts. The hardness of the metal is correspondent to its other mechanic characteristics, and so its mechanic characteristics such as the strength, tiredness, wriggling and wearing out can be tested out approximately through its hardness testing. The Digital Rockwell Hardness Tester is equipped with a newly-designed large displaying screen with good reliability, excellent operation and easy watching, thus it is a high-tech product combining the mechanic and electric features.

**Its main function is as follows:**
The Selection of Rockwell Hardness Scales;
The Selection of Plastic Rockwell Hardness Scale (The special requirements will be met according to the supply contract)
The hardness values exchange among various Hardness Scales;
The Output-Printing of hardness testing results;
The RS-232 Hyper Terminal Setting for the Functional Expansion by the client.

**Technical Specifications :**
The Initial Test Force : 98.07N (10kg); Tolerance:±2.0%
The Total Test Force : 588.4N (60kg), 980.7N (100kg), 1471N(150kg); Tolerance:±1.0%

**The Indenter Specifications :**
The diamond Rockwell indenter
The φ1.5875 mm ball indenter

**The Power Source and the Voltage :** AC220V±5%, 50-60 Hz

**Time-delayed control :** 2~60 seconds, adjustable

**The Max. Height of the Testing Specimen :** 175 mm

**The Overall Dimension of the Hardness Tester :** 520×215×700mm.
Weight : about 78kg

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**Digital Rockwell Hardness Tester (HR-150A)**

**Description**
The **Digital Rockwell Hardness Tester (HR-150A)** that we bring to you is sturdy in construction and perfect when it comes to performance. Because of its reasonable prices and longer functional life, it is comprehensively in demand.

**More about Digital Rockwell Hardness Tester (HR-150A) :**
The hardness is one of the important criteria of the mechanical functions of the materials, and the hardness test is the important means to judge the quality of the metallic materials or parts. As the metallic hardness has mutual correspondent relations with other mechanical functions, the majority of the metallic materials can calculate the other mechanical functions such as the strength, the fatigue, the evolutionary change and the degree of being worn out can be approximately inferred from the hardness shown by the test. The manual Rockwell hardness fester is a popularly-used hardness testing instrument to measure the Rockwell hardness of the materials. The speed of loading the test force is regulated by the buffer whereas the change of the test force is made by rotating the carriage-changing hand-wheel. The operation of the present instrument is simple, its functions are stable, and its use is, therefore, widely spread.

**Technical Specifications :**
The Initial test force : 98.07N(10kg)
The Total Test force : 588.4N(60kg), 980.7N(100kg), 1471N(150kg)
The specifications of the indenter

Diamond Rockwell indenter
Ball indenter φ1.588mm
Digital Vicker Hardness Tester (XHV 1000)

Description

Contact us for purchasing XHV-1000 Digital Micro Vickers Hardness Tester! The Digital Vicker Hardness Tester (XHV 1000) is widely acknowledged for its performance and construction. Rely on us—our services won’t disappoint you!

More about Digital Vicker Hardness Tester (XHV 1000):

The Digital Micro Vickers Hardness Tester is a high-tech product combining optic mechanic and electronic techniques with a unique design, operational functions and reliability, and hence it is an ideal instrument for the testing of micro-hardness. With an automatically turning device between the indenter and the objective and by means of a 10×objective and a 40×objective, the tester has a wider measurement field and a more precise measurement.

The tester has adopted the soft-ware programming by computer, the highly-amplifying optic measuring system and photo-electric sensor techniques. The operation panel uses a unique touch LCD screen, and by clicking, the instrument has such multiple functions as the adjustment of light intensity, the presetting of test force dwell time, the selection of Vickers or Knoop hardness test mode, the conversion of ruler, the file storage, and it can display the measured indentation length, hardness value, test force dwell time, test numbers, as well as the date, test result and data processing. All the testing data can be put out by the printer and connected with the computer by means of the RS232 interface.

According to the particular requirements of the client, the tester can be equipped with CCD, visual and photographic devices. The instrument is suitable for the testing of the micro and thin pieces, the parts with the plated surface, the crisp materials such as the agate, glass and ceramics; therefore it is an ideal hardness measuring instrument for the scientific research institutes, the universities, the industrial production units and the metrological institutes.

Technical Specifications:

Testing range: 1HV~2967HV
Test force: 0.098N(10gf), 0.245N(25gf), 0.49N(50gf), 0.9807N(100gf), 1.961N(200gf), 2.942N(300gf), 4.903N(500gf), 9.807N(1000gf)
Displayed Hardness Value, Hardness Range, Max Tolerance

(200~300)HV0.05 ±5.0%
(400~500)HV0.1’(700~800)HV0.2 ±4.0%
(700~800)HV0.5’HV1 ±3.0%

Carriage application method: automatic loading and unloading

Max height of the specimen: 100 mm
Distance between the point of the indenter and the exterior panel: 98 mm

Gross weight: 44kg
Net weight: 30 kg
Power: AC220V, 60/50Hz
Dimension(L×W×H): (480×305×545)mm

Accessories (The Packing List)
The main instrument including a micro indenter, a 40×objective and a 10×objective
Digital Vicker Hardness Tester (HV 5)

Description

Get in touch with us for acquiring superior grade XHVT-5Z/10Z/30Z/50Z Intelligent Digital Vickers Hardness Tester at nominal prices. You can place even the bulk orders of Digital Vicker Hardness Tester (HV 5) with us and we will deliver them on time.

More about Digital Vicker Hardness Tester (HV 5):

The Vickers Hardness Tester is a new and high-tech product combining the optical, mechanical and electronic techniques, with a good aesthetic aspect, operational functions and reliability, and hence it is an ideal instrument for the testing of Vickers hardness.

The instrument adopts closed-loop loading control system, it makes the test accuracy improved and the repeatability and stability of the value better.

With the soft keys on panel board for input operation:

Automatic shifting between indenter and objective.
Arbitrarily choose the test force.
Preset the testing force dwell time.
Adjust intensity of light source.
Read the indentation length and after input it shows the hardness value and the number of measurements.

The instrument is suitable for the testing Vickers hardness value of the micro and thin pieces, permeated and coated plane surface, the crisp materials such as the agate, glass and it is, therefore, an ideal hardness measuring instrument for the scientific research institutes, the universities, the industrial production units and the metrological institutes.

According to the particular requirements of the client, the tester can be equipped with CCD indentation automatically measuring device.

Technical Specifications:

Carriage application method: Automatic loading, dwelling and unloading
Shifting method of objectives and indenter: Manual shifting (Z: Automatic shifting)
Dwell time: 0~60s (5 seconds as a unit)
Energy-saving Mode: After 10 minutes in repose, the hardness tester will automatically enter the energy-saving mode and shut up the light source.

The operator can also wake up the energy-saving mode of the hardness tester by pressing any key on the panel, and then go on with the operation.

Power: (110~220) V, AC (60~50)Hz
Max. Height: 170 mm
Max. Depth: 130 mm (From the center)
Dimension (L×W×H): 530×280×630 mm
Weight: about 50 kg

Digital Vicker Hardness Tester (HVS 1000(Z))

Description

Designed in accordance with the stated international quality standards, our Digital Vicker Hardness Tester (HVS 1000(Z)) is comprehensively demanded by the buyers. The HVS-1000(Z) Digital Micro Vickers Hardness Tester can be acquired from us at the nominal prices.

More about Digital Vicker Hardness Tester (HVS 1000(Z)):

The Micro Vickers Hardness Tester is a new type high-tech product combining the optical, mechanic and electronic techniques; with a novel and pleasing appearance, direct-viewing, operational functions and reliability, (Z Type: it has a special characteristic that the indenter and the objective shifting are automatically completed); hence it is an ideal instrument for the testing of micro-hardness.

Made with a precise design in the field of mechanics, CPU control of the testing process in the electric field, and adopted the highly clear optic
testing system and photo-electric sensor in the field of optics, the instrument has multiple functions as the input by means of the touch keys on the operating board, the presetting of the dwell time for test force, the selection of the Vickers or the Knoop measuring methods, regulation of the intensity for measuring light source. All the testing data such as the indentation length, the hardness value, dwell time of the testing force and the number of the measurements are all shown on the LCD screen; and can be outputted by printer as well. By means of RS232 interface, the instrument would be connected with computer.

According to the particular requirements of the client, the instrument can be equipped with CCD, video measuring device and photographic devices. The instrument is suitable for testing the micro and thin pieces, the parts with the permeated and coated surface, it is also fit for testing micro Vickers and Knoop hardness value for the crisp materials such as the agate, glass, ceramics and it is, therefore, an ideal hardness measuring instrument for the scientific research institutes, the universities, the industrial production units and the metrological institutes using with for studying and measuring.

**Technical Specifications:**

<table>
<thead>
<tr>
<th>Test forces</th>
<th>Displayed Hardness Value</th>
<th>Hardness Range</th>
<th>Max Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.098N(10gf), 0.245N(25gf), 0.49N(50gf), 0.9807N(100gf), 1.961N(200gf), 2.942N(300gf), 4.903N(500gf), 9.807N(1000gf)</td>
<td>(200~300) HV0.05 ±5.0%</td>
<td>(400<del>500) HV0.1, (700</del>800) HV0.2 ±4.0%</td>
<td>(700<del>800) HV0.5, (700</del>800) HV1 ±3.0%</td>
</tr>
</tbody>
</table>

Test Force Application Method: automatic loading and unloading

Amplification of the Microscope: 400× (for the measurement), 100× (for the observation)

Dwell time of the testing force: 0~60s (5 seconds as a unit)

Min. graduation value of the testing drum wheel: 0.0625µm

Max. height of the specimen: 100 mm

Distance between the center point of the indenter and the exterior panel: 98mm

Weight of the main body: 30kg

Power source: AC220V/50~60Hz

Overall dimension (L x W x H): (480×305×545)mm

**Accessories (The Packing List)**

The main instrument (including a micro Vickers Indenter, a 40× Objective and a 10× Objective)

The Accessories Kit

Special Accessories

- Knoop Indenter
- Hardness Test Blocks
- Metallurgical Specimen Cutter
- Metallurgical Specimen Mounting Press
- Metallurgical Specimen Polisher
- CCD Image Measuring System
Digital Vicker Hardness Tester (HBRV 187.5)

Description

The HBRV-187.5 Motorized Brinell Rockwell & Vickers Hardness Tester is offered by us at cost-effective prices. We ensure that the placed order of the Digital Vicker Hardness Tester (HBRV 187.5) is delivered within the postulated period of time.

More about Digital Vicker Hardness Tester (HBRV 187.5):

Hardness is one of the important mechanic characteristics of the material while the hardness testing is the most quickly and economic testing method, as well as an important method to judge the quality of the metal material or its component parts. The mechanic characteristics of most metal materials such as the strength, tiredness, wriggling and wearing out can be tested out approximately through its hardness testing.

The Motorized Brinell Rockwell & Vickers Hardness Tester, a multi-functional hardness tester with Brinell, Rockwell &Vickers 3 kinds of testing methods and 7 steps testing force will meet the needs of many kinds of hardness measurement. The instrument is adopted automatic shifter to load, dwell and unload testing force, therefore the operation for this instrument is simple, easy and quickly.

Technical Specifications:

- The Initial Test Force: 98.07N (10Kg); Tolerance: ± 2.0%
- The Tolerance of Total Test Force: ± 1.0%
- The Test Force of Brinell Hardness: 294.2N (30kg), 306.5N (31.25kg), 612.9N (62.5kg), 980.7N (100kg), 1893N (187.5kg)
- The Test Force of Rockwell Hardness: 588.4N (60kg), 980.7N (100kg), 1471N (150kg)
- The Test Force of Vickers Hardness: 294.2N (30Kg), 980.7N (100Kg)
- The Indenter Specifications:
  - The diamond Rockwell indenter
  - The diamond Vickers indenter
  - The ϕ1.5875 mm, ϕ2.5 mm, ϕ5 mm ball indenter
- The Power Source and the Voltage: AC220V±5%, 50-60 HZ
- Time-delayed control: 2-60 seconds, can be adjusted
- The Distance from the Indenter Central Point to the Instrument Body: 165mm.
- The Max. Height of the Specimen:
  - The Max. Height of the Specimen for Rockwell Hardness: 170mm
  - The Max. Height of the Specimen for Brinell & Vickers Hardness: 140mm
- The Amplification of Objective: 37.5×; 75×
- The Overall Dimension of Hardness Tester(Length × Width × Height): 520×215×700mm
- The Total Weight of the Tester: 78kg

Digital Vicker Hardness Tester (XHVT 5Z)

Description

Get in touch with us for acquiring superior grade XHVT-5Z/10Z/30Z/50Z Intelligent Digital Vickers Hardness Tester at nominal prices. You can place even the bulk orders of Digital Vicker Hardness Tester (XHVT 5Z) with us and we will deliver them on time.

More about Digital Vicker Hardness Tester (XHVT 5Z):

This instrument is a new generation of Vickers hardness tester. It adopts the integrated design of hardness tester and computer; all the testing parameters can be selected on the panel computer. With touching screen, it operates quickly and conveniently and displays clearly and intuitively.
With CCD image acquisition system, it can show dynamic indentation image, lock the image and automatically get the Vickers hardness value. With high measuring accuracy and stable performance, it avoids human errors and achieves domestic advanced level.

**Main Features:**
Integrated design of hardness tester and computer. With Windows 7 operating system, it has all functions of computer. It can also be connected to the monitor, printer and other output devices. With three measuring objectives, automatic recognition and shifting between the objective and the indenter. The lifting screw adopts the worm and gear structure for smooth transmission. Test force application: automatic loading, dwelling and unloading. With the function of hardness scale conversion. It can automatically save the measuring data, generate the hardness-depth curve and save as WORD document. With built-in CCD image automatic measuring system, the indentation displays clearly and intuitively and the hardness value can be automatically got. Digital cross test table makes the measurement more accurate, and it can be equipped with X-Y automatic test table (optional) to realize the automation of Vickers hardness testing.

**Technical Parameters:**
- Test force application method: Automatic loading, dwelling and unloading
- Shifting method between indenter and objectives: Automatic shifting
- Dwell time of the test force: 0~60s
- Digital camera pixel: 1.3 million
- The Max. Height: 180 mm
- The Max. Depth: 130 mm (From the center)
- Overall dimension (L×W×H): 560×335×635 mm

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**Digital Vicker Hardness Tester (HVS 10)**

**Description**

We have come up with an exclusive range of Hardness Tester that is quality assured! The Digital Vicker Hardness Tester (HVS 10) that we offer is competitively priced. Our HVS-10/10P/10Z Digital Vickers Hardness Tester score full on terms of performance.

**More about Digital Vicker Hardness Tester (HVS 10):**
The Vickers Hardness Tester is a new and high-tech product combining the optical, mechanical and electronic techniques, with a good aesthetic aspect, operational functions and reliability, and hence it is an ideal instrument for the testing of Vickers hardness. Made with a precise structure design in mechanical field, the instrument adopts motorized testing force loading system to instead of traditional and heavy weights, therefore the force application more stable, the force value more precise and operation more easy. By means of 0.5‰ accuracy compression sensor to feedback the information of force application, and automatically compensate the test force lost by itself, the instrument can dynamically show the instantaneous value of force applied on LCD screen of panel board. We use CPU to control all testing process in electric field, adopts new technology of highly clear optic testing system and photoelectric sensor in optic field. With the soft keys on panel board for input operation, the tester has multiple functions as preset the value of testing force and duration time firstly, adjust intensity of light source, and all the testing data such as indentation length, the hardness value, the dwell time of load, and the number of measurements are all shown on the LCD screen.

According to the particular requirements of the client, the tester can be equipped with CCD indentation automatically measuring device or video measuring device. The instrument is suitable for the testing Vickers hardness value of the micro and thin pieces, the parts with the strengthening layer, heat treating and permeated and coated plane surface, the crisp materials such as the agate, glass, ceramics and it is, therefore, an ideal hardness measuring instrument for the scientific
research institutes, the universities, the industrial production units and the metrological institutes.

Technical Specifications:
Test forces: 2.94N(0.3 kg), 4.9N(0.5 kg), 9.81N(1 kg), 19.61N(2 kg), 24.52N(2.5 kg), 29.42N(3 kg), 49.03N(5 kg), 98.07N(10 kg)

Displayed Hardness Value | Hardness Range | Max Tolerance
--- | --- | ---
(200~300) HV0.5 | (200~300) | ± (4.0~5.0) %
(400~500) HV1 | (400~500) | ± (4.0~5.0) %
(700~800) HV5 | (700~800) | ± 3.0 %
(700~800) HV10 | (700~800) | ± 3.0 %

Testing Force Application Method: automatic loading and unloading
Dwell time of the test force: 0~60s (5 seconds as a unit)
Max. height of the specimen: 170 mm
Distance between the point of the indenter and the exterior panel: 130 mm
Weight of the main body: 31 kg
Power: (110/220) AV, (60/50)Hz
Overall Dimension (L×W×H): (535×225×580) mm

Digital Vicker Hardness Tester (570 HAD)

Description
The 570HAD Digital Multi-functional Hardness Tester can be acquired from us in bulk and at the moderate rates. Over the years, we have been successfully delivering even the bulk orders on time. Our Digital Vicker Hardness Tester (570 HAD) is obtainable at the acceptable prices.

More about Digital Vicker Hardness Tester (570 HAD):
Hardness is one of the important mechanic characteristics of the material while the hardness testing is an important method to judge the quality of the metal material or its component parts. The hardness of the metal is correspondent to its mechanic characteristics, and so its mechanic characteristics such as the strength, tiredness, wriggling and wearing out can be tested out approximately through its hardness testing.
Digital multi-functional hardness tester with Brinell, Rockwell, Vickers three testing methods, multi-functional hardness tester of seven grade test force, it can meet the needs of a variety of hardness tests. Test force loading, dwell, unload adopted automatic switching mechanism, test force transformation obtained by the rotation of hand wheel, indention measured by precision encoder and sensor and calculated the hardness value by the internal system program. So it is easy to operate, fast and intuitive interface, basically, no human operation error, with its high sensitivity, stability, it is suitable for workshops and laboratories.

The main function as follows:
- Brinell, Rockwell, Vickers three testing methods
- Conversion of different hardness scales
- Selection of dwell time
- Modifications of time and date
- Output of testing results
- RS232 interface for optional functions, this model can save testing results and browse testing pages.

Technical Specifications:
The Power Source and the Voltage: AC220V±5%, 50-60 Hz
Time-delayed control: 0-60 seconds, adjustable
The Distance from the Indenter Center to the Instrument Body: 165mm
Overall Dimension (Length × Width × Height): 551×260×800 mm
The Net Weight of the Tester: 80kg (Approx.)
Hung Ta Instrument (M) Sdn. Bhd.
No. 109, Jalan Sungai Ujong, Taman Ast, 70200, Seremban, Negeri Sembilan, Malaysia
Tel: 06-763 6031
Fax: 06-763 7692
E-Mail: info@hungtatest.com
Website: www.hungtatest.com

Sales: sales@hungtatest.com
Service: service@hungtatest.com
Sales: sales@hungtatest.com