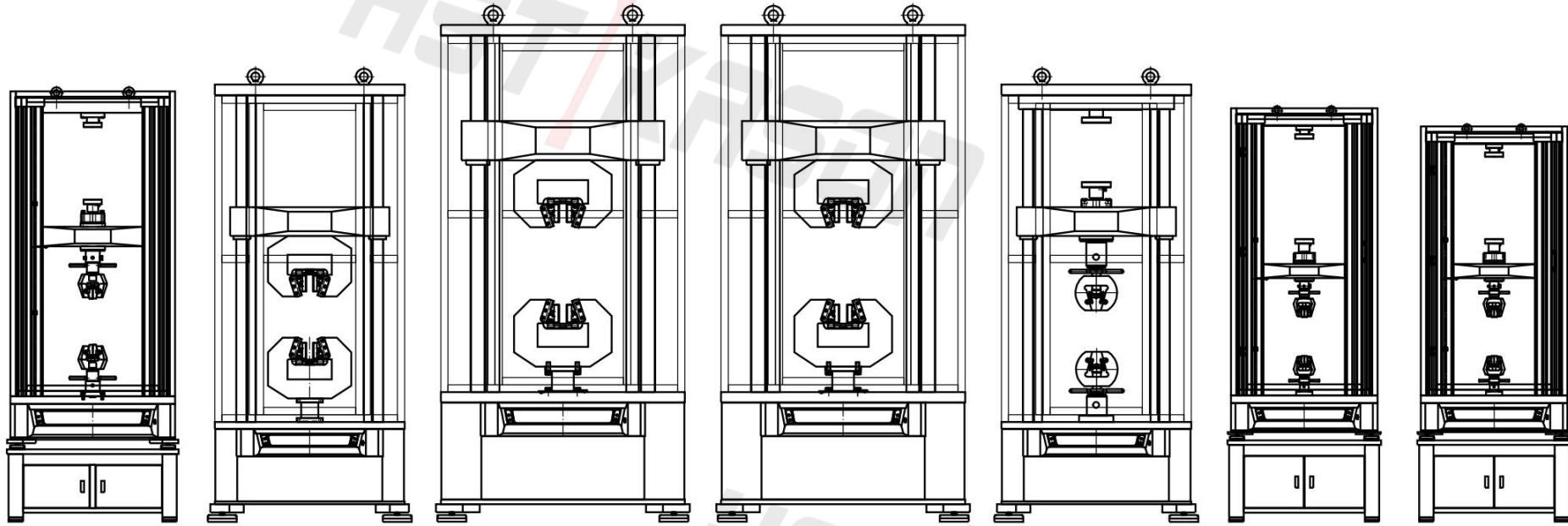


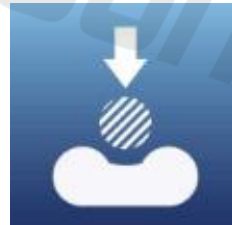
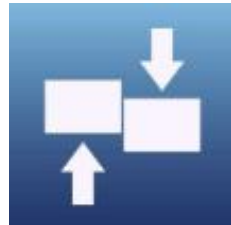
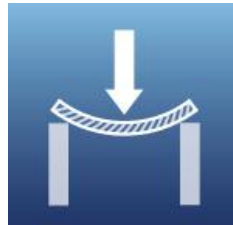
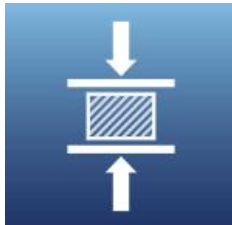


1-100kN

Electronic Mechanical
Universal Testing Machines



*Diversified product series is available to almost all markets and industries around the world,
Meet different customers*



WDW Series

- Application

This series material testing machine product group was primarily developed for standardized tests on materials and components. Used in conjunction with the intuitive HKtest software.

Test Typical: wide range of tension, compression, bending, shearing and low cycle test. include metal, building components, rubber, plastic, spring, high strength steel (HSS), aerospace and automotive structures, screws, nuts, large fasteners, wood products etc.

- Standards

ASTMA370, ASTM E4, ASTM E8, ASTM E9, ASTM D638, ASTM D882, ASTM D3039, ASTM D3479, ASTM E517, ASTM D695, ASTM D6641, ASTM D3410, ASTM D7791, ASTM D412, ISO6892, ISO527-3, ISO527-4, ISO7438, ISO7500-1, EN10002-4, GB/T228-2002, GB 16491-2008, HGT 3844-2008 QBT 11130-1991, GB13-22-1991, HGT 3849-2008, GB6349-1986, GB/T 1040.2-2006, ASTM C165, EN826, EN1606, EN12430 etc

- Safety Device

Stroke protection: Machinery, computer double protection, prevent over preset; Force

protection: system setting

Emergency stop device: handling emergencies

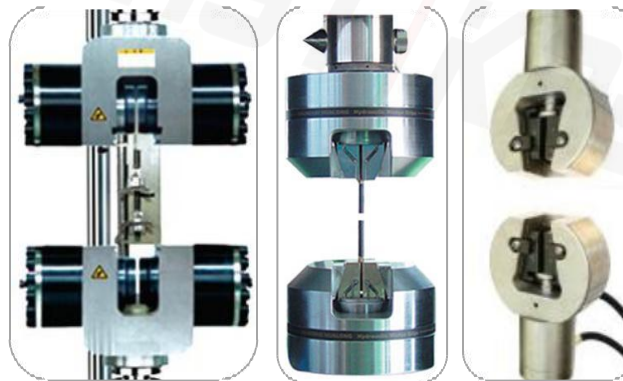




Can display

Load, displacement, speed

Has the functions of test start, test stop, test zero clearing and so on



- 01 Compression Grip
- 02 Ruler
- 03 Load Sensor
- 04 All Side Fully Enclosed Cover
- 05 High-Strength Beam
- 06 Digital Display Hand Control Box and Fixed Seat
- 07 Coaxiality Adjustment Device
- 08 Tensile Grip
- 09 Spiral stretch Line
- 10 Power Indicator
- 11 Emergency Stop Switch
- 12 Power Start Switch
- 13 High Load-Bearing Rubber Shock Absorption and Leveling Horn

T-slot Table



The grip can be changed according to the customer's material

Better performance, more cost-effective

HST/KASON



our machine



others

PK

Machine appearance comparison

PRODUCT COMPARISON



PK



Machine cover

All aluminum alloy surface special treatment, beautiful and generous, moisture-proof, rust-proof, long-term use without discoloration

Machine cover

Iron plate spray paint, easy to rust, poor corrosion resistance, easy to change color, drop paint



PK



4 columns and 2 ball screws, high frame strength, good guidance, smooth operation of equipment, low noise

2 columns 2 ballscrews, frame is not rigid enough, the guide performance is poor, easy to deform, can't guarantee the test accuracy, big vibration, high noise



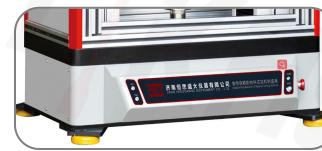
PK



High stiffness middle beam

used to adjust the test space, the important stress position, coaxial adjustment device used to adjust the coaxiality of the upper and lower fixture and improve the fracture alignment of the specimen

The middle beam is thin, easy to bend and deform after force, and the rigidity is poor. Impact on service life No coaxiality adjustment device, sample fracture to neutral difference, affecting test accuracy



PK



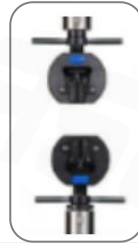
Working table whole plate, high stiffness, low gravity, stable. High bearing capacity rubber shock absorber cushion levelling iron on base, adjusting the level of equipment, reduce the equipment vibration during the test process

The base is made of thin steel plate with poor stiffness, light weight at the bottom, high gravity, poor stability and no good shock absorber at the bottom

PRODUCT COMPARISON



PK



Test Grip

Electroplating process is used to treat the surface with high brightness and corrosion resistance

Test Grip

Blackening treatment, poor corrosion resistance



PK



USA sensor

Class 0.5, Conforms to EN 10002-2 Grade0.5, ISO75001-1 Class 0.5, BS 1610 Class 0.5, ASTM E4, and JIS B7721 Class 0.5

China sensor
Class 1



PK



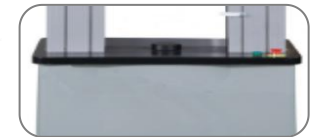
Installation of indicator ruler for real-time observation of the position of moving beam

The limit switch adopts the built-in installation mode, the outside adopts the limit adjusting rod and the position locking knob, has the strong sensitivity. Safe and reliable.

No indicator ruler, unable to observe position of moving beam
The external limit switch is fixed on the moving beam, and the line of the limit switch follows the moving beam. The line is easily damaged after bending, the sensor is easily damaged by impact. No position adjusting rod and limit adjusting locking device



PK



The installation supporting cabinets designed according to human ergonomics, improves the overall control comfort of the equipment. The upper desktop is a high hardness solid psychological plate and the lower part is the high bearing rubber shock absorber leveling pad iron.

without

Proprietary Technology



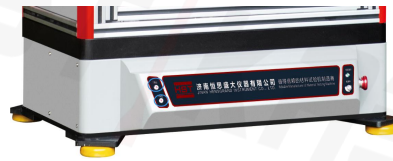
External hand-held controller-- Our company

adopts 320 x 240 LED display, which can quickly adjust the test space. It also has the functions of test start, test stop, test zero clearing and so on. It can display the running state of the equipment in real time, test data, make the sample clamping more convenient and easy to operate.



Safety and accessibility of electricity-our company

Add circuit breaker and computer, printer wiring board to change the line disorderly when using, make the line layout more clear, at the same time improves the safety of electricity use.



Limit indicator---our company

The mechanical touch device installed on the middle beam, after touching the electronic limit, the corresponding upper and lower limit indicator light will be on to prevent the equipment from overloading operation, sensor damage and so on, so as to protect the safety of the equipment operation.



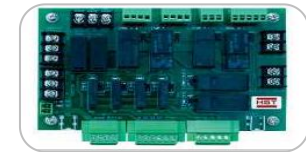
External Independent Controller

Integrated measurement, control and transmission functions, And the signal acquisition, signal amplification, data transmission, servo motor drive unit is highly integrated; USB data transmission fully supports notebook computer, tablet computer, desktop computer



Safety protection shield

Fully enclosed aluminum alloy shield , protection door with stainless steel lockin latch



PCIE board card-Other Company

Unable to connect notebook and so on, data transmission is slow. It is easy has problem that cannot find the card, the card and the computer do not match and so on, the service life is short, to buy the controller and the special computer again after the loss of the host, which greatly increases the cost

Machine running drive system

Adopt 24 V low voltage control, used Japan Panasonic Company and Japan Omron Company and other international brand components, with electrical overcurrent, overload, limit indication and other protection functions,the equipment safe and reliable.

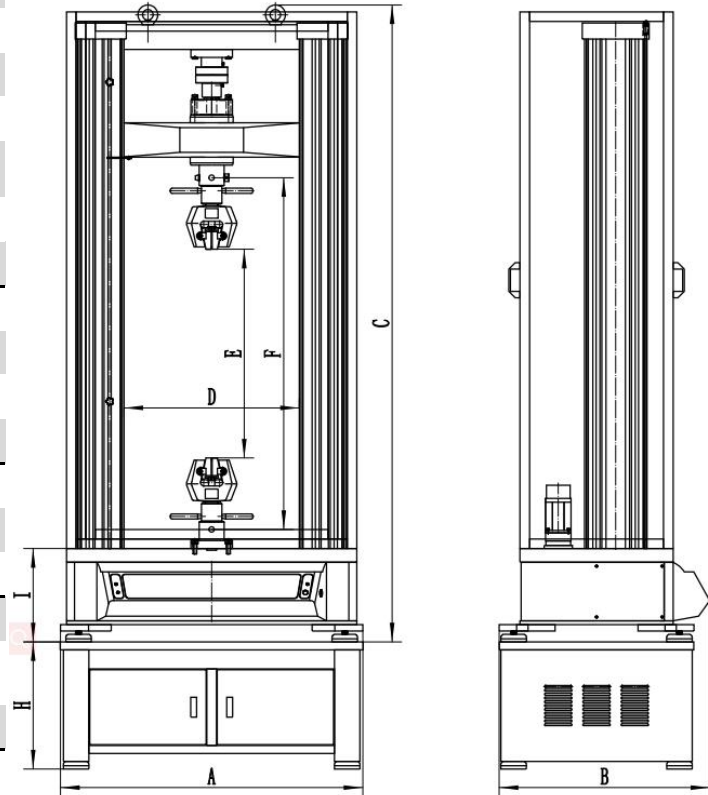
Elastic PU spiral line -our company

The connecting wire of force sensor and external hand-held controller adopts high elastic spiral telescopic wire, which makes the line more beautiful and durable.



Specifications

NO.	Items	Model	WDW-10E	WDW-20E	WDW-30E	WDW-50E	WDW-100E		
1	Host	Structure	column and 2 Ball Screw						
		Max. Load(kN)	10	20	30	50	100		
		Tensile space(mm)	670			770		650	
		Compression space(mm)	900			1000		1000	
		Effective test width	450			450		550	
		size(mm)	850 x 590 x 1750			840 x 570 x 1850		950x660x2000	
		Host Weight (kG)	370			420		680	
		Power Supply	220V/50-60Hz						
2	Control System	Controller	24 bit AD, external controller						
		communication mode	USB 2.0						
		Test software	HKTest						
		Hand control box	320x240 Display Sscreen , 8 key control						
3	Process Specifications	Servo motor	TAIWAN "TECO"						
		Speed(mm/min)	0.01-1000					0.01-500	
		Displacement resolution	0.4 μm					0.2 μm	
4	Test Specifications	Load cell	USA (max load) : one can add more load cell						
		Load accuracy	Class 0.5, EN 10002-2 Grade0.5, ISO75001-1 Class 0.5, BS 1610 Class 0.5, ASTM E4, and JIS B7721 Class 0.5						
		Measuring range	0.2% ~ 100%						
5	Safety Protection	strong electric drive system	24V voltage control, with over current overloading protection function						
		Position limit switch	Upper and lower lights						
		Power	Power light,leak current protection device						
		Automatic protection	Overload 10%, automatic protection						
6	Other Configuration	Position limit protection	Hall switch						
		Equipment level adjusting device	φ80mm vibration-absorptive cushioning iron						
		Hand control box fixing device	Standard						



Load	A	B	C	D	E	F	H
20kN	850	585	1740	450	670	1000	450
50kN	850	585	1840	450	770	1100	450
100kN	950	660	2000	550	655	1100	400

Note:Extra wide and/or extra height frames are available.Power supply system is completely customizable.Tensile space, test width, and speed is completely customizable.

Accessories

Basic configuration



Tensile Grip
Round: $\Phi 4$ - $\Phi 9$, $\Phi 9$ -14 (Optional)
Flat: 0-7mm, 7-14mm (Optional)



Compression plate:
 $\Phi 100$ mm



Standard: TECO
Optional: Japan Panasonic



Hand-held controller
Optional: DOLI RMC6 or RMC7



USA Load Cell



Controller: HKTEST
Optional: DOLI EDC220



English operation software and CD



Cable connect with PC

Extension configuration



Four-sided safety shield



bottom cabinet



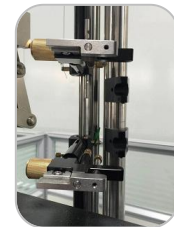
Computer



Printer



Extensometer YYU
series Gauge length: 100, 50, 25
deformation: 5, 10, 25mm



Long travel extensometer Model DBX-800
For textiles, plastics and rubbers etc.



USA Epsilon
High Temperature Extensometers
Temperature Range: 1200 °C



USA Epsilon
Extensometer Model 3542



MF automatic extensometer-MFL-300B, 500BEN 10002 Class 0.5
Stroke: 300mm; 500mm



Video Extensometers-Mercury RT
Features: Non-contact; 2D and 3D measurement



High and low Temperature test chamber
Temperature range: -70°C~280°C (compressor)-100°C~280°C (liquid nitrogen)

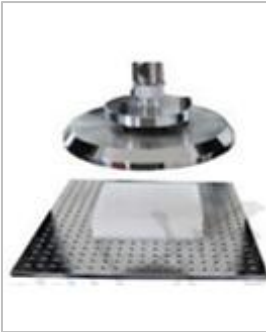


High Temperature Electric Furnace
Temperature range: +200-1100°C

Other Grips



Three point bending test grip



Sponge foam Compression grip



Pneumatic tensile grip



Pneumatic wedge tensile grip



Pneumatic tensile grip



Hydraulic tensile grip



Hydraulic tensile grip



Fiberglass mesh tension Grip



Capstan Grip



Waterproof material Grip



Cord tension Grip



Ceramic adhesive strength Grip



Self-tightening roller Grip



Cord tension Grip



Shearing Fixture



Side Action Hydraulic Grip



90° peel grip



180° peel grip



Rubber plastic tensile grip

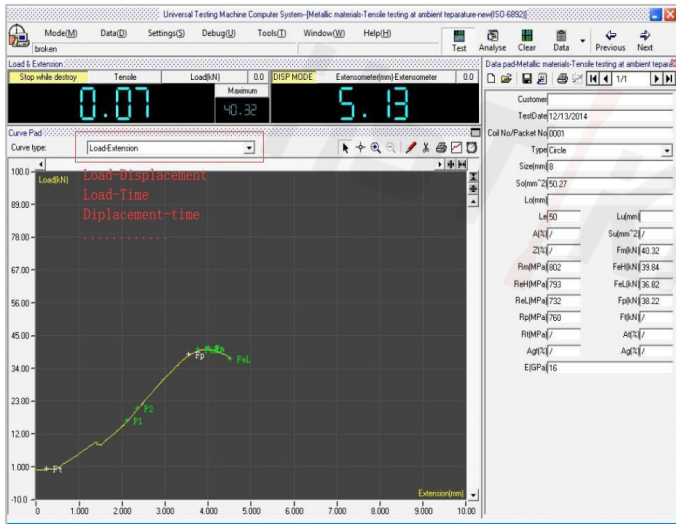


Wire winding tensile grip



Double clip grip

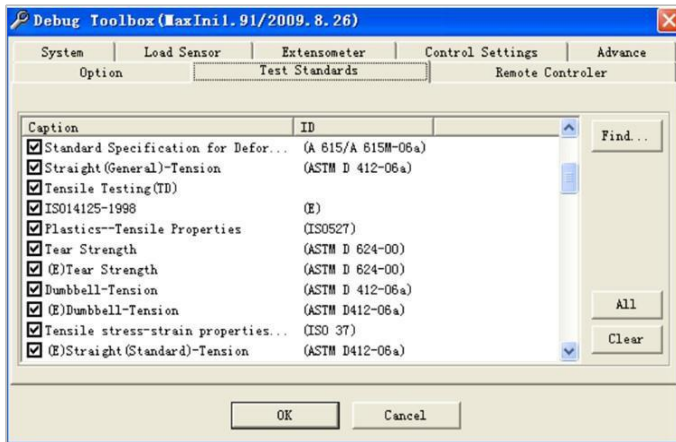
Software features



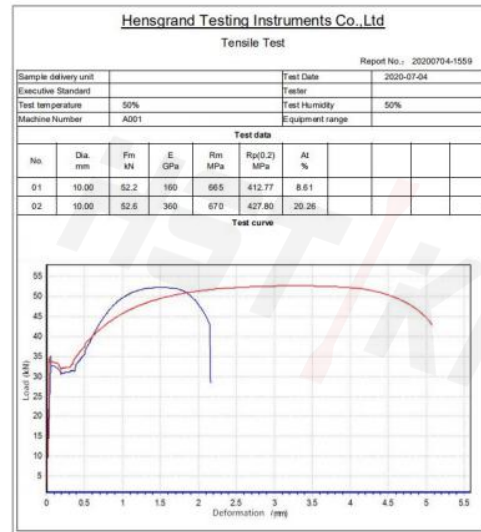
- Computer software interface, display test data, setup method, sample size
- Can displays Load - displacement, Load - time, Load-Extnsion, Stressi-Strain, Stress-Time, Strain-Time, Load-Stress, Stress-Dipment, Dispment-Time to display and print; Can switch at any time to observe, zoom in and zoom out, horizontal or vertical movement, real-time high speed sampling.
- Tested product information: provide users with the data to set about the products, one time to input and re-use permanently . for improving the accuracy, the data can be corrected by the formula automatically.
- Unit KG,N,LB can be exchanged

Items can be tested in the computer servo type universal testing machine Common items: (display data and calculation)

- tensile stress
- tensile strength
- rate of elongation at break
- rate of stress at break
- stress strength
- tear strength
- the value of force at any point
- rate of elongation at any point
- pull-out strength



Test standard: provide users with the necessary applications to the test, covering GB, ASTM, DIN, JIS, BS ... and other testing standard specification.



Output and print report: Excel, word, template test report, can be edited customize To show test information, including test person, test standard, test curve, test max load etc, can add your company LOGO and company name,easy to edit.

