



CATALOGUE

HST GROUP CO., LTD.

Our company is a leading specialist manufacturer and supplier in China, specialized in developing and manufacturing testing equipments for metal, non-metal and composite materials. Products passed the European CE authentication, American FDA certificate and ISO 9001. sold to USA, Canada, Australia, Europe, Africa etc, more than 130 countries.



▼ Application

This series single column testing system for tension and compression applications where loads less than 5kN.

- >Designed with strong linear motion guide and servo motor.
- >Increased lateral stiffness to ensure linear crosshead travel.
- >Servo motor equipped with precise planet-gear speed reducer providing higher efficiency and low noise.
- >Wide range of test accessories allows to meet test requirements of different standards and for different materials.
- >This series is suitable to test: plastics, wires, bars, biomaterials, adhesive materials, etc...

▼ Standards:

ASTMA370, ASTM E4, ASTM E8, ASTM E9, ISO6892, ISO7438, ISO7500-1, EN10002-4, GB/T228-2002, HGT 3844-2008 QBT 11130-1991, GB13-22-1991, HGT 3849-2008, GB6349-1986, GB/T 1040.2-2006, ASTM C165, EN826,



▼ Specifications

MODEL	WDS-01,02,03,05,1,2,3,5	WDW-01,02,03,05,1,2,3,5
Max. Load(kN)	1,2,3,5	1,2,3,5
Control method	Digital Display	Computer control
Calibration standard	ISO 7500	
Load accuracy	Class 1	Class 0.5
Load range	2% ~ 100%F·S	0.4% ~ 100%F·S
Resolution of displacement	0.01mm	
Test speed(mm/min)	0.05-500	0.05-500
Tensile space(mm)	600 (Can be customized)	
Compression space(mm)	600 (Can be customized)	
Working environment	Room temperature 10℃ ~ 30℃, relative humidity ≤ 80%	
Power supply	AC220V±10%, 50Hz/60Hz (can be customized)	
Grips	Wedge type, plate type and other grips as consumer's demand	
Dimension(mm)	425*400*1315mm	
Gross Weight	100kg	



WDW SERIES

Electromechanical universal Testing Machine

▲ Load: 1-300kN

▼ Application

This series electromechanical testing machines offer force, displacement or deformation closed loop testing in tension, compression, flexure, shear, tear and peel etc.. The machine can be equipped with a variety of accessories including: grips, fixtures, compression frames, thermal cabinets and extensometers covering all relevant applications as testing of rubber, plastics, foils, films, textiles, adhesives, paper, foods, foams, timber, wires or other metallic or non-metallic specimens and medical, electronic and other components. The load frames are rigid constructed, providing superior axial and lateral stiffness.

▼ Standards:

Metal:

ASTM E8, ISO 6892, BS EN 10002-1, ASTM E21, ISO 783, EN ISO 7438, ISO 14589, ASTM F606

Plastics/ Composites:

ASTM D638, EN ISO 6259, EN ISO 527-1, ISO 604, ASTM D695, ASTM D3846, EN ISO 844, EN ISO 13968, EN ISO 9969, etc.

Geo-textiles:

ASTM D3950, ASTM D 6775-02, BS EN ISO 10319, JBT 8521(EN 1492-2).Rubber: ISO 37, ASTM D41



▼ Specifications

MODEL	WDW-5E	WDW-10E	WDW-20E	WDW-30E	WDW-50E	WDW-100E
Load Capacity (kN)	5	10	20	30	50	100
Test Grade	0.5	0.5	0.5	0.5	0.5	0.5
Testing Force Accuracy	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Testing Force Range(FS)	0.4%-100%	0.4%-100%	0.4%-100%	0.4%-100%	0.4%-100%	0.4%-100%
Force Resolution	1/500000	1/500000	1/500000	1/500000	1/500000	1/500000
Displacement Accuracy	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Displacement Resolution(mm)	0.05	0.05	0.05	0.05	0.05	0.05
Speed Range (mm/min)	0.01-1000	0.01-1000	0.01-1000	0.01-1000	0.01-1000	0.01-500
Control Accuracy	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Crosshead Travel(mm)	1000	1000	1000	1100	1100	1100
Max. Tensile Testing Space(mm)	670	670	670	770	770	650
Max. Compression Testing Space(mm)	900	900	900	1000	1000	1000
Test width (mm)	450	450	450	450	450	550
Compression Platen(mm)	Φ98	Φ98	Φ98	Φ98	Φ98	Φ98
Load cell	High-precision USA load cell offers high stiffness, high stability, and high linearity Over-load protection ,lateral loading protection, Bi-direction allows tension and compression test					
Position limit switch	Upper and lower lights					
Power Supply	AC220V±10%, 50Hz/60Hz					
Overall Dimensions (L*W*H: mm)	850 x 590 x 1750			840 x 570 x 1850		950x660x2000
Net Weight(kG)	370	370	370	420	420	680

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.



WDW SERIES

Electromechanical universal Testing Machine

▲ Load:200-600kN



▼ 200/300KN



▼ 500/600KN

▼ Specifications

MODEL	WDW-200E	WDW-300E	WDW-500E	WDW-600E
Load Capacity (kN)	200	300	500	600
Test Grade	0.5	0.5	0.5	0.5
Testing Force Accuracy	±0.5%	±0.5%	±0.5%	±0.5%
Testing Force Range	0.4%-100%FS	0.4%-100%FS	0.4%-100%FS	0.4%-100%FS
Force Resolution	1/300000	1/300000	1/300000	1/300000
Displacement Accuracy	±0.5%	±0.5%	±0.5%	±0.5%
Displacement Resolution(mm)	0.05	0.05	0.05	0.05
Speed Range (mm/min)	0.01-500	0.01-500	0.01-500	0.01-500
Control Accuracy	±0.5%	±0.5%	±0.5%	±0.5%
Crosshead Travel(mm)	1100	1100	1100	1100
Max. Tensile Testing Space(mm)	700	700	800	800
Max. Compression Testing Space(mm)	1100	1100	800	800
Test width (mm)	600	600	700	700
Compression Platen(mm)	Φ100	Φ100	Φ100	Φ100
Load cell	High-precision USA load cell offers high stiffness, high stability, and high linearity Over-load protection ,lateral loading protection, Bi-direction allows tension and compression test Self-recognition (TEDS) function, Regular self-calibration			
Position limit switch	Upper and lower lights			
Power Supply	AC220V±10%, 50Hz/60Hz			
Overall Dimensions (L*W*H: mm)	1102*870*2395		1450*1140*2730	
Net Weight(kG)	2200		4000	

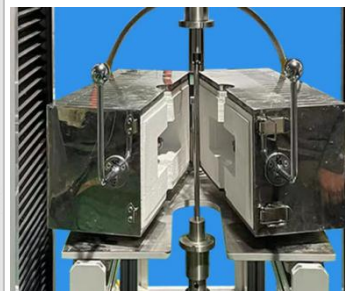
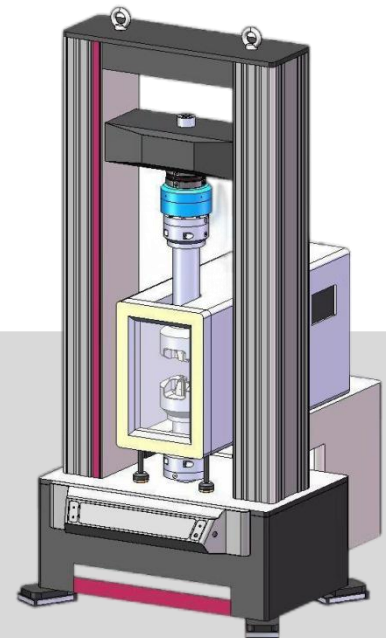
Note:Extra wide and/or extra height frames are available. Power supply system is completely customizable. Tensile space, test width, and speed is completely customizable.



WDW-GD SERIES

High and low temperature Universal Testing Machine

Temperature: -40-1600 °C



▼ 200~1200 °C

▼ -40~350 °C

▼ -190~350 °C

▼ 200~1600 °C



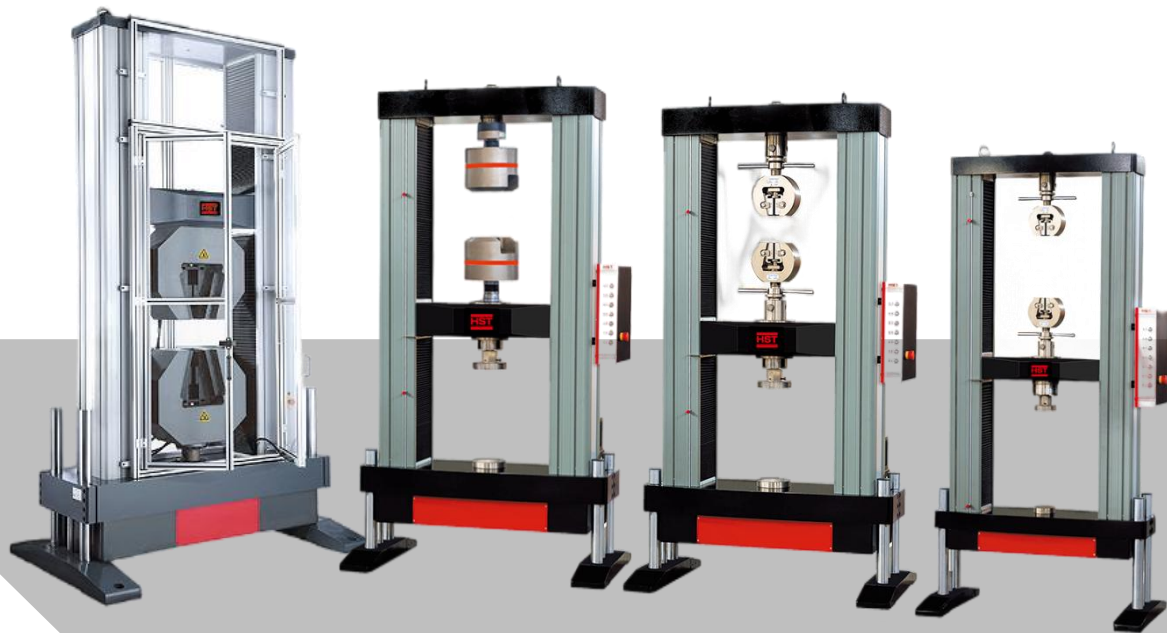
◆ D SERIES



◆ E SERIES



◆ H SERIES

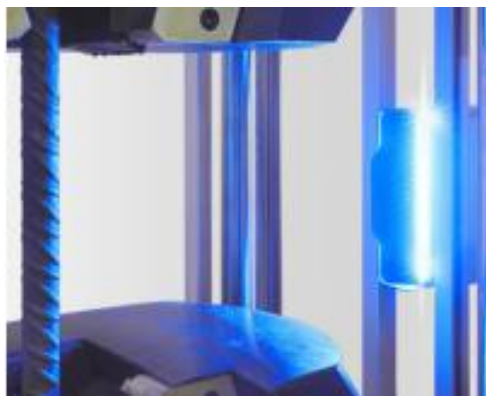
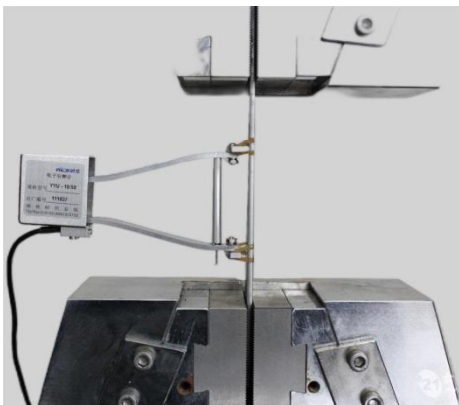
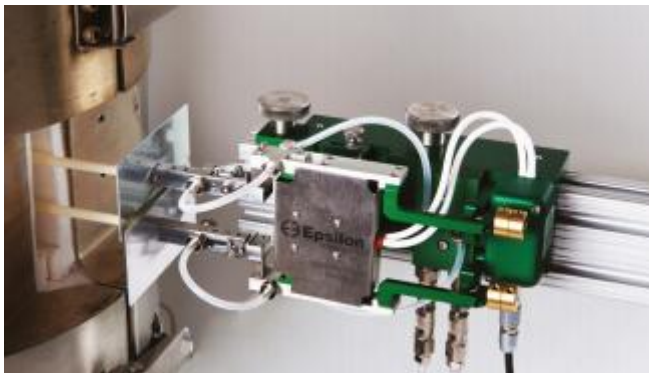




◆ **GRIPS**

			
<p>Mechanical Wedge-shape</p>	<p>Hydraulic Wedge tensile grip</p>	<p>Side action Hydraulic tensile grip</p>	<p>Bending grip</p>
			
<p>Pneumatic Grips</p>	<p>Pneumatic Grips</p>	<p>Pneumatic Grips</p>	<p>Pneumatic Grip</p>

◆ **EXTENSOMETERS**





▼ Application:

WAW-D series (Dual space) Servo-hydraulic Universal Testing Machine is ideal for high-capacity tension, compression, bend/flex, and shear testing.

- > Metals including wires, rods, tubes, strips, plates,
- >Fasteners/fixtures:tensile, proof, single and double shear
- >Construction materials: reinforcement bar, wire, mesh, folding, compression of concrete and components

▼ Standards:

AstmE4, ISO7500-1, EN 10002-2, BS1610, DIN51221, ASTM E83, ISO 9513,BS 9513 BS 3846 and EN 10002-4.safety:EN 50081-1,580081-1, 73/23/EEC, EN 61010-1,Tensile test at room temperature: DIN EN 10002-1,ISO 6892,ASTE A370, ASTM E8, ASTM A615/615M,ISO 10606, EN10080, Compression test DIN 1048, ISO 6784, ASTM C39,ISO 4506, ASTM F606-07, Tensile test for stands:ASTM A416, BS 5896, ASTM D143.



▼ Specifications

MODEL	WAW-100D WEW-100D	WAW-300D WEW-300D	WAW-600D WEW-600D	WAW-1000D WEW-1000D	WAW-1000E WEW-1000E	WAW-1200D WEW-1200D	WAW-2000D WEW-2000D
Max. Load(kN)	100	300	600	1000	1000	1200	2000
Load accuracy	Class 1/Class 0.5						
Measuring range	4% ~ 100%/ 1% ~ 100%						
Displacement Resolution	0.01mm						
Load resolution	Capacity/500,000 (fully auto scaling of single measurement range)						
Tensile space(mm)	780	780	900	950	980	930	850
Compression space(mm)	550	550	650	700	700	640	850
Distance between two columns	485	485	500	560	580	610	800
Piston stroke(mm)	200	200	200	200	250	250	250
WAW Testing speeds(mm/min)	0.1-123	0.1-123	0.1-123	0.1-70	0.1-70	0.1-70	0.1-70
WEW Testing speeds(mm/min)	Manual						
Clamping Method	Hydraulic Automatic Clamp						
Power Supply	3-phase, AC380V, 50Hz (Can Be Customized)						



WAW-A SERIES

Top Cylinder Servo-hydraulic universal Testing Machine

▲ Load:300-3000kN

▼ Application:

- >Metals-(wire, rod, tube,strip, plate, strip)
- Fasteners (tensile, proof,single and double shear)
- >Construction materials(reinforcement bar, wire,mesh, folding,compression of concrete and components)
- >Nonmetal materials , and more

▼ Standards:

ISO6892, ISO6935, BS 8110, BS4482, BS4483, BS444

▼ Features

Top seated cylinder structure makes the installation of frame without complicated foundation construction.

Extra-length screws and columns, with an adjustable upper crosshead, to increase the available test space for longer test specimens.



▼ Specifications

MODEL	WAW-300A	WAW-600A	WAW-1000A	WAW-2000A	WAW-3000A
Max. Load capacity(kN)	300	600	1000	2000	3000
Structure	Four column				
Accuracy of testing load(%)	±0.5/±1				
Accuracy of deformation(%)	±0.5				
Test Range	2%-100%				
Deformation measurement range	2%-100%				
Posion rising speed (mm/min)	0-250	0-250	0-150	0-100	0-100
Piston descending speed (mm/min)	0-250	0-250	0-180	0-100	0-100
Test Force Loading Rate Range	0.02%-2%FS/s				
Host structure	2	4	4	4	4
Max. Tensile space(mm)	400	580	700-1000	700	800
Max. Compression space(mm)	300	460	520	650	520
Piston stroke(mm)	250	250	250	250	300
Max. Loading speed(mm/min)	100	100	75	50	100
Distance between columns(mm)	500	490x330	660x400	810x490	900x540
Clamping method	Hydraulic Automatic Clamp With Wedge				
Round insert(mm)	Φ10-32	Φ10-40	Φ13-Φ26 ; Φ26-Φ40	Φ15-Φ40; Φ40-Φ70	Φ15-Φ40; Φ40-Φ70
Flat insert(mm)	2-25	2-30	2-40; 40-60	10-40;40-70	10-40;40-70
Compression platens(mm)	240*240	240*240	240*240	240*240	240*240
Dimensions of load frame(mm)	880x630x2980	880x630x2980	980x720x3530	1505x1186x4178	1700x1400x4500
Weight(kg)	1500	3000	5000	8500	11500



WAW-L SERIES

Single test space Servo-hydraulic universal Testing Machine

▲ Load:300-3000kN

▼ Application:

- >Metals-(wire, rod, tube,strip, plate, strip)
- >Fasteners (tensile, proof,single and double shear)
- >Construction materials(reinforcement bar, wire,mesh, folding,compression of concrete and components)
- >Nonmetal materials , and more

▼ Standards:

ISO6892, ISO6935, BS 8110, BS4482, BS4483, BS444

RFCTop-mounted hydraulic double direction actuator

Used to apply a tensile or compressive load to the test specimen; this design makes it easy to provide different stroke lengths

Large test space:Double acting crossbeam quickly accommodates specimens of varying lengths. In the case of additional length of columns, the maximum testing space is adjustable to meet extra length specimens.



▼ Specifications

MODEL	WAW-300L	WAW-600L	WAW-1000L	WAW-2000L	WAW-3000L
Max. Load capacity(kN)	300	600	1000	2000	3000
Structure	Four column				
Accuracy of testing load(%)	±0.5				
Accuracy of deformation(%)	±0.5				
Test Range	1%-100%				
Deformation measurement range	1%-100%				
Posion rising speed (mm/min)	0-250	0-250	0-150	0-100	0-100
Piston descending speed (mm/min)	0-250	0-250	0-180	0-100	0-100
Test Force Loading Rate Range	0.02%-2%FS/s				
Max. Tensile space(mm)	400	580	700-1000	700	800
Max. Compression space(mm)	300	460	520	650	520
Actuator stroke(mm)	370	580	650	700	800
Max. Loading speed(mm/min)	100	100	75	50	100
Distance between columns(mm)	500	490x330	660x400	810x490	900x540
Clamping method	Hydraulic Automatic Clamp With Wedge or side action grip				
Round insert(mm)	Φ10-32	Φ10-40	Φ13-Φ26; Φ26-Φ40	Φ15-Φ40; Φ40-Φ70	Φ15-Φ40; Φ40-Φ70
Flat insert(mm)	2-25	2-30	2-40; 40-60	10-40;40-70	10-70
Compression platens(mm)	240*240	240*240	240*240	240*240	240*240
Dimensions of load frame(mm)	880x630x2980	880x630x2980	980x720x3530	1505x1186x4178	1505x1186x4178
Weight(kg)	1500	3000	5000	8500	11500



WAW-L SERIES

Single test space Servo-hydraulic universal Testing Machine

▲ Load:300-3000kN





WAW-F SERIES

Double Cylinder Servo-hydraulic universal Testing Machine

▲ Load:300-3000kN

▼ Application:

- >Metals-(wire, rod, tube,strip, plate, strip)
- >Fasteners (tensile, proof,single and double shear)
- >Construction materials(reinforcement bar, wire,mesh, folding,compression of concrete and components)
- >Nonmetal materials , and more

▼ Standards:

ISO6892, ISO6935, BS 8110, BS4482, BS4483, BS444

Double-cylinder under four-column frame

Double cylinder adjustment test space, double cylinder drive loading, electro-hydraulic servo, wedge-shaped hydraulic jaw automatic clamping, computer automatic control Real-time display of load force control, deformation control and displacement control. In the test process, three control modes can be set according to the setting.

Large test space:

Double acting crossbeam quickly accommodates specimens of varying lengths. In the case of additional length of columns, the maximum testing space is adjustable to meet extra length specimens.



▼ Specifications

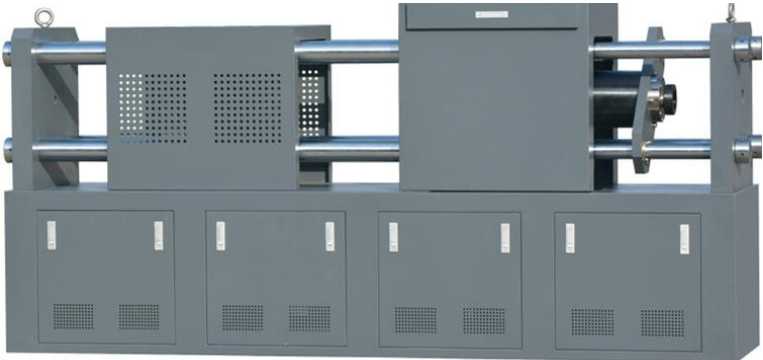
MODEL	WAW-300F	WAW-600F	WAW-1000F	WAW-2000F	WAW-3000F
Max. Load capacity(kN)	300	600	1000	2000	3000
Structure	Four column				
Accuracy of testing load(%)	±0.5				
Accuracy of deformation(%)	±0.5				
Test Range	1%-100%				
Deformation measurement range	1%-100%				
Posion rising speed (mm/min)	0-250	0-250	0-150	0-100	0-100
Piston descending speed (mm/min)	0-250	0-250	0-180	0-100	0-100
Test Force Loading Rate Range	0.02%-2%FS/s				
Max. Tensile space(mm)	400	580	700	1100	1100
Max. Compression space(mm)	300	460	520	650	520
Piston stroke(mm)	400	580	700	1100	1100
Max. Loading speed(mm/min)	100	100	75	50	100
Distance between columns(mm)	500	490x330	660x400	810x490	900x540
Clamping method	Hydraulic Automatic Clamp With Wedge or side action grip				
Round insert(mm)	Φ10-32	Φ10-40	Φ13-Φ26; Φ26-Φ40	Φ15-Φ40; Φ40-Φ70	Φ15-Φ40; Φ40-Φ70
Flat insert(mm)	2-25	2-30	2-40;40-60	10-40;40-70	10-40;40-70
Compression platens(mm)	240*240	240*240	240*240	240*240	240*240
Dimensions of load frame(mm)	880x630x2980	880x630x2980	980x720x3530	1220x760x1150	1220x760x1150
Weight(kg)	1500	3000	5000	8500	11500



LEW/LAW Series
Steel Strand Tensile
Stress Testing Machine



ERT-300/500
Steel Strand Tensile Stress
Relaxation Testing Machine



MGW-6500
Static Load Anchoring
Testing Machine



▼ Application:

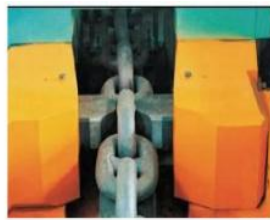
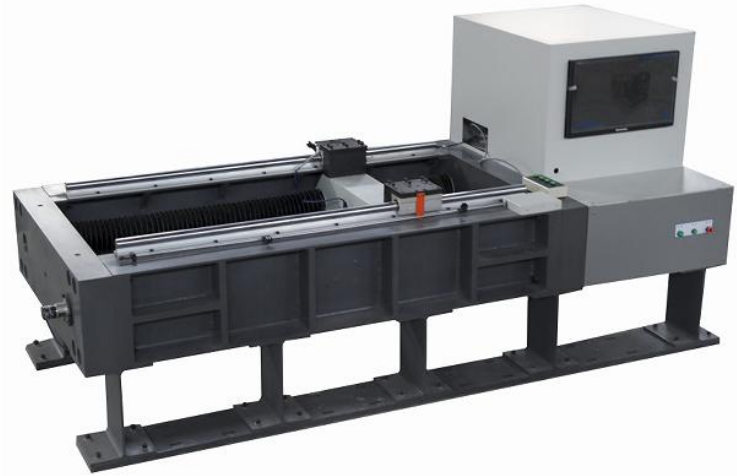
WAL Series Horizontal tensile testing machine is designed specifically for wire, rope, chain, shackle and cable testing, these test frames use a horizontal test opening to accommodate long specimens and high elongation demands.

These test frames are powered by hydraulics for high strength testing and can be customized in length to meet a variety of application requirements as well as the grips can be modified to accommodate different shaped specimens and alternate grips can be provided for customers to interchange as and when their test requirements change. PC-based machine control software provided with the machine is upgraded to include data acquisition and data analysis.

▼ Standard:

Load meets or exceeds the following standards: ASTM E4, ISO7500-1, EN 10002-2, BS1610, DIN 51221.

Strain measurement meets the following standards: ASTM E83, ISO 9513, BS 3846 and EN 10002-4



▼ Specifications

MODEL	WAL-500	WAL-1000	WAL-2000	WAL-5000	WAL-10000	WAL-15000
Max. testing load(kN)	500	1000	1000	5000	10000	15000
Amplifying multiple	1,2,5 (Three steps)					
Accuracy of specimen elongation	1%FS					
Test load accuracy	Better than 1% indicating value					
Resolution Of crosshead displacement	0.02mm					
Tensile testing space (mm)	500	500	500	500	1000	2000
	1000	1000	1000	1000	3000	5000
	2000	3000	3000	3000	5000	8000
Ram stroke (mm)	300	300	300	300	500	500
	500	500	500	500	800	800
	1000	1000	1000	1000	1000	1000



JB-B SERIES

Pendulum Impact Testing Machine

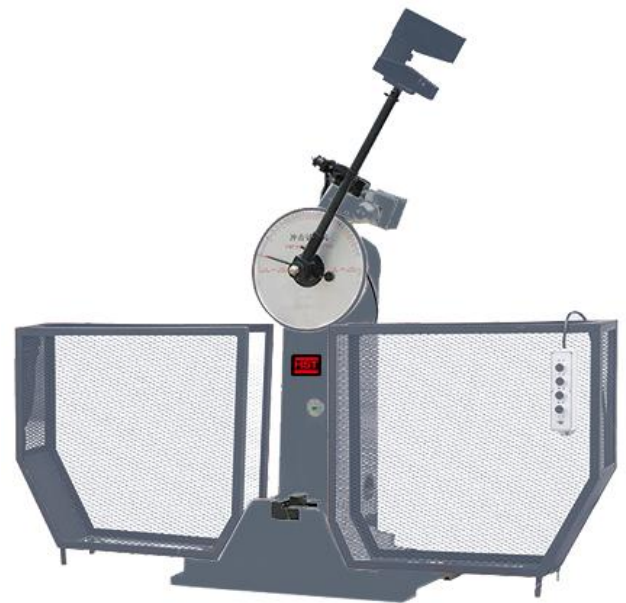
Capacity: 150/300/500J

▼ Application:

- Impact on metals, Charpy test only
- >Optional manual/ automatic cooling system down to -180°C
- >Optional instrumentation impact testing system

▼ Standards:

ASTM E23, ISO 148, EN10045, ISO 14556, JIS Z 2242, GOST 9454



Dial gauge display series



▼ Specifications

MODEL	JB-300	JB-300B	JB-500B
Type	Manual	Semi-automatic	Semi-automatic
Impact energy (J)	150,300	150,300	250,500
Impact velocity (m/s)	-	5.2	5.4
Raised angle		150°	
Standard span (mm)		40+0.2mm	
Distance between pendulum rotating center and specimen center(mm)	800	750	750
Round angle of jaws (mm)		R1-1.5	
Round angle of striking edge (mm)		R2-2.5 or R8±0.05	
Size of specimen (mm)		10 x 10(7.5/5) x 55	
Power supply	3phs, 380V/220V±10%, VAC50Hz or specified		
Dimensions (mm)	1000×630×1520	2124 x 600 x 1340	2144 x 736 x 1390
Gross weight(KG)	320	550	750

▼ Application:

- Impact on metals, Charpy test only
- >Optional manual/ automatic cooling system down to -180°C
- >Optional instrumentation impact testing system

▼ Standards:

ASTM E23, ISO 148, EN10045, ISO 14556, JIS Z 2242, GOST 9454

JBS-with analogue dial gauge and touch screen display

JBW- with analogue dial gauge and Computer display



with analogue dial gauge and touch screen display series



▼ Specifications

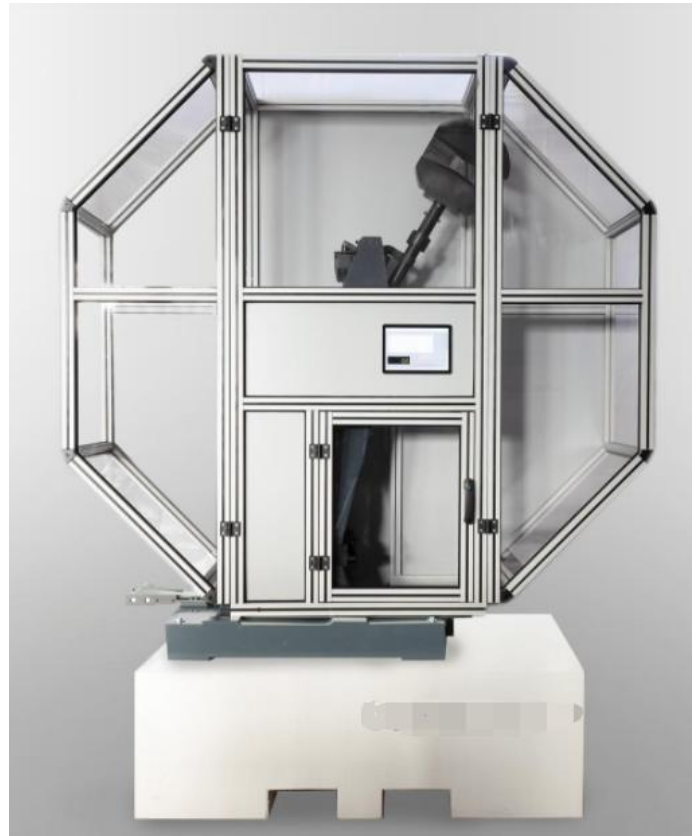
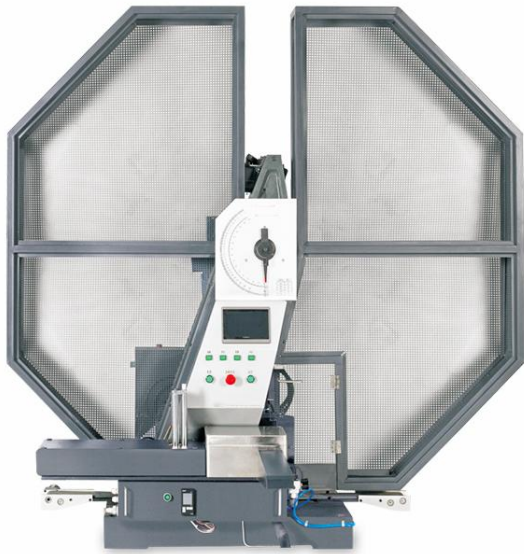
MODEL	JBS-300B/JBW-300B	JBS-500B/JBW-500B
Type	JBS SERIES Touch screen display/JBW SERIES Computer display	
Impact energy (J)	150,300	250,500
Impact velocity (m/s)	5.2	5.4
Raised angle	150°	
Standard span (mm)	40±0.2mm	
Distance between pendulum rotating center and specimen center(mm)	750	750
Round angle of jaws (mm)	R1-1.5	
Round angle of striking edge (mm)	R2-2.5 or R8±0.05	
Size of specimen (mm)	10 x 10(7.5/5) x 55	
Power supply	3phs, 380V/220V±10%, VAC50Hz or specified	
Dimensions (mm)	2124 x 600 x 1340	2144 x 736 x 1390
Gross weight(KG)	550	750

▼ Application

- Impact on metals, Charpy test only
- >Optional manual/ automatic cooling system down to -180°C
- >Optional instrumentation impact testing system

▼ Standards

- ASTM E23, ISO 148, EN10045, ISO 14556,
- JIS Z 2242, GOST 9454



▼ Specifications

MODEL	JBW-300C JBS-300C	JBW-450C JBS-450C	JBW-600C JBS-600C	JBW-750C JBS-750C
Control Method	JBW series is computer model, JBS series is PLC control and LCD touch screen model			
Type	C			
Max. impact energy(J)	300	450	600	750
Pendulum Torque	160.7695	241.1543	321.5390	401.9238
Distance from the axis of support to the center of percussion	750mm			
Impact speed	5.24 m/s			
Angle measurement resolution	0.025°			
Raised angle	150°±1°			
Round angle of the jaw	R1-1.5mm			
Support	Support span	40mm		
	Radius of curvature of support	1mm		
	Angle of taper of supports	11°±1°		
Striking knife	Radius of striking edge	2mm		
	Angle of striking tip	30°		
	Angle of striking tip	16mm		
Specimen dimension	55×10×10,55×10×7.5mm,55×10×5mm			
Round angle of impact edge	R2-2.5mm,R8±0.05mm			
Angle accuracy	0.1°			
Power supply	3phs, 380V/220V±10%, VAC50Hz or specified			



▼ Application

Designed for providing the specimens used in the impact testing tasks. Both manual type and hydraulic type are available to cutting the notch according to the “V” ASTM E23, ISO148 standards,U” DIN 50115 and ISO83 standards “Charpy Notch Impact Test Method for Metal Material” on the specimen for only one time. At the same time, it has advantages of high precision, long life, low noise and concise appearance etc.



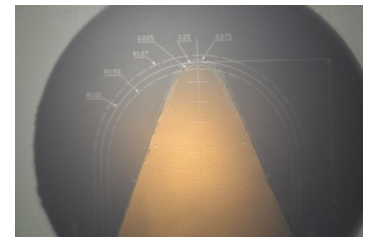
▼ Specifications

MODEL	VU-1S	VU-2Y
Shape of sample notch	V-shape(2 mm) or U-shape (2mm)	V2 mm,U2mm, (U3mm, U5mm alternative)
Sample size(mm)	10×10×5(or 10×10×7.5,10×10×2.5)	
Cutting mode	Manual	AUTO
Broach material	W18Cr4V	
Broaching Speed	/	2.5m/min
Max. Dimension(mm)	350×350×600	660×500×1240
Weight(kg)	100	200
Power supply	/	380V 50Hz 0.4Kw

→ U/V notch projector

▼ Application

Impact specimen U/V notch projector is a supplemental equipment for impact test, which is mainly used to check the accuracy of the impact specimen U/V notch. Users can put the notched specimen on projector working table and compare the projection image with the standard plate to identify the quality of the specimen notch.



▼ Specifications

MODEL	CST-50
Screen diameter	Φ200mm
Square work table dimension	110*125mm
Round work table dimension	Φ90mm
Work table glass diameter	Φ70mm
Work table rotary range	±10 x ±10 x ±12mm
Instrument Magnifications rate	0°-360°
Objective lens magnification	50*
Projection objective magnification	2.5*
Light source	20*halogen tungsten lamp(DC12V) 100W
Dimension	510*220*600 mm
Weight	18KG
Power supply	AC 220V, 50HZ, 150W





▼ Application

DWC Series Temperature Chamber is designed according to the standard of 'Charpy Notch Impact Test Method for Metal Materials' and adopts compressor cooling technology, which is made up of two sections(Low temperature grade and high temperature grade). It utilizes the heat balance principle and cycle stirring method to realize the constant temperature cooling to impact specimen with the reliable performance.



Compressor



Liquid Nitrogen

▼ Specifications

MODEL	DWC-40	DWC-60	DWC-80	DWC-100	DWC-196
Temperature range	+30~-40°	+30~-60°	+30~-80°	+30~-100°	+30~-196°
Temperature Control Accuracy	±0.5°				±2°C
Effective working space (mm)	120×120×80				240×150×150
Specimen dimension	10×10×55mm				
Specimen quantity	More than 60 pcs				
Temperature dropping speed°C/min)	+30°C~0°C 1.2°C/min	+30°C~0°C 2°C/min	+30°C~0°C 2°C/min	+30°C~0°C 2°C/min	2°C ~5°C / min
	0°C~-20°C 0.8°C/min	0°C~-20°C 1.5°C/min	0°C~-20°C 1.5°C/min	0°C~-20°C 1.5°C/min	
	-20°C~-40°C 0.5°C/min	-20°C~-40°C 1.0°C/min	-20°C~-60°C 1.0°C/min	-20°C~-40°C 1.0°C/min	
		-40°C~-60°C 0.7°C/min	-60°C~-80°C 0.7°C/min	-60°C~-100°C 0.7°C/min	
Mode of refrigeration	Compressor refrigeration				Liquid nitrogen
Cooling Medium	Ethanol or other unfrozen liquid				

▼ Application

This type of machine is specially for conducting drop-weight test to determine nil-ductility transition (NDT) temperature of ferritic steels

▼ Standards

ASTM E208, GB/T6803

▼ Specifications

MODEL	NDT-2000	NDT-3000	NDT-6000
Maximum Energy(J)	2000	3000	6000
Minimum Energy(J)	300	350	750
Maximum Tup Mass(kg)	70	100	200
Tup Mass Accuracy	±1%		
Drop Height(mm)	750 ~ 2915	750 ~ 3062	750 ~ 3062
Velocity Of Drop(m/s)	3.8 ~ 7.8		
Speed of tap raise(m/s)	7		
Height Accuracy(mm)	≤±10		
Hardness Of Tup Nose	HRC58-62		
Radius Of Tup Nose(mm)	R25.4±0.1		
Height Accuracy(mm)	≤±10		
Hardness Of Tup Nose	HRC58-62		
Radius Of Tup Nose(mm)	R25.4±2.5		
Sample Centered Error(mm)	±1		
Support Anvil Span	P-1:305, P-2、 P-3:100		
Specimen Dimension	P-1:(360±1)×(90±2)×(25±2.5)		
Power Supply	380v±10%,50/60Hz		



▼ Application

This type of machine is especially designed for drop-weight tear tests of ferritic steels and line pipe.

▼ Standards

ASTM E436, API RP*5L3, GB/T 8363

▼ Specifications

MODEL	DWTT-20000	DWTT-30000	DWTT-50000	DWTT-800000	DWTT-1000000
Maximum Energy(J)	20000	3000	50000	80000	100000
Minimum Energy(J)	8000	8000	20000	20000	20000
Tup Mass(kg)	630	630	1600	1620	1620
Tup Mass Accuracy	±1%				
Weight mass	120	390	360	780	1380
Weight mass accuracy	±0.5%				
Total weight of tup	750	1020	1960	2400	3000
Drop Height(mm)	1275 ~	1275 ~	1275 ~	1275 ~ 3400	1275 ~
Velocity Of Drop(m/s)	5 ~ 7.67	5	5 ~ 7.14	5 ~ 8.16	5 ~ 8.16
Height Accuracy(mm)	≤±10				
Hardness Of Tup Nose	HRC58-62				
Radius Of Tup Nose	R25±0.1mm				
Hardness Of Tup Nose	HRC58-62				
Radius Of Tup Nose	R25.4±2.5mm				
Sample Centered Error	±1mm				
Specimen Dimension	(300±5)*(75±1.5)*(3-50)mm;(305±19)*(76.2±3)*(3-50)mm				



▼ Application:

Mainly used for repeated bending test of metal wire and testing performance and defect of bearing plastic deformation at the process of bending metal wire repeatedly. You can operate on digital display screen and it shows bending times. It can also process sheet metal bending test after using sheet clamping device.

▼ Specifications

- >Sample Diameter:1-10mm
- >Bending Angle:±90°
- >Bending Speed: ≤ 60times/min
- >Sample Length:150-200

▼ Application:

Bending Testing Machine is special equipment to do bending test for reinforce bar, steel bar and pipe. It can do bending test in both directions according to standards requirement. It conforms to standards ASTM A615-89, ASTM A615M-89, ISO 7438:1985, and ISO 8491:1986 (E).

▼ Specifications

MODEL	HST-40E	HST-50E
Bending Diam Of Steel Bar	Φ6-Φ40mm	Φ6-Φ50mm
Forward Bending Angle	0-180° (the angle can be set freely in the range)	
Reverse Bending Angle	0°-25° (the angle can be set freely in the range)	
Roating Speed Of Working Table	< 3.7r/min	< 3.0r/min
Diameter Of The Working Table	Φ580mm	Φ860mm
Motor Power	1.5kw	3kw

▼ Specifications

This type of testing machine is designed to perform bending test on metallic materials, like rod steel, plate steel and rebar. Bidirectional hydraulic loading, easy to bend specimen with diameter less than 40mm to 180°.

▼ Standards:

ISO7438, ASTM A370

▼ Specifications:

MODEL	LWS-300A
Max pushing force(kN)	300
Working operation(mm)	300
Max working pressure(Mpa)	25
Bending angle range	0-180°
Bending circle sample diameter(mm)	Φ6-Φ32
Bending head diameter(mm)	Φ6-Φ128
Maximum distance of rollers(mm)	300
Cylinder loading speed(mm/min)	About 120
Main engine dimensions(mm)	1200 ×550 ×2000
The engine power(kW)	1.1
The host weight(kg)	About 1100



JWJ-10 Wire repeated bending test



Steel Bending Testing Machine



▼ Application:

Used to test the plasticity of metal wires and ropes under torsion condition. Surface flaws of steel wires may be shown during the testing process. It is most suitable for quality inspection of departments related to steel wire. The revolution is displayed on a 4-digit LED. Max. displayed revolution is 999.9. The revolution value is automatically held at the break of specimens. It conforms to standards of ASTM A938, ISO7800.

WireTorsion Testing Machine



▼ Specifications

MODEL	HEZ-3	HEZ-6	HEZ-10
Max. Clamp metal wire diameter (mm)	Φ1-3	Φ1-6	Φ3-10
Parallelism of the full moving guide	≤0.2		
Distance between the grips (mm)	320	500	500
Rotation speed adjusting range (r/min)	60/90/120/180/300		60/90/120/180
Torsion speed error (%)	< ±10%		
Min. number of circle values	0.1		
Two chuck alignment(mm)	< Φ0.4		
Jaw hardness(HRC)	50-65		
Weights error (%)	±0.5		
Work Noise (dB)	≤70		
Min. revolutions reading values(r)	1		
Power Supply	AC 220V±10%,50Hz		



▼ Application:

This series materials torsion testing machine is used for torsion test of metal materials, nonmetallic materials, composite materials and components

MaterialseTorsion Testing Machine

▼ Specifications

MODEL	NDS-200 NDW-200	NDS-500 NDW-500	NDS-1000 NDW-1000	NDS-2000 NDW-2000	NDS-3000 NDW-3000	NDS-5000 NDW-5000
Maximum TorqueN/m	200	500	1000	2000	3000	5000
Machine level	1 Class					
Torque Test Range	2% ~ 100%F·S					
Torque value relative error	≤±1%					
intersection angle display resolution(°)	0.1					
Control method	Close-loop control of torque,torsion angle and deformation					
Max. torsion Angle	99999°					
Torsional angular rate control range (°/min)	0.05-800					
Chuck spacing effectively	600mm			650mm		
Power Supply	220V±10%, 50Hz					



Table Model

YAW -300D/300E SERIES

300kN Servo Compression Testing Machine

▼ Application:

This type of machine is widely used for compression strength determination of cement, bricks and other building materials.

▼ Standards:

EN196, ISO 679, ASTM C 109 and C 349

▼ Specifications

MODEL	YAW-10	YAW-300D	YAW-300E	
Test	Flexure	Compression	Compression	Flexure
Load capacity(kN)	10	300	300	10
Test Accuracy	Class 1	Class 1	Class 1	
Force range	2%-100%FS			
Column spacing(mm)	190	190	190	
Distance between the upper and lower platen	390	390	180	
Compression platens(mm)	150*200	150*200	Φ108/Φ60	
Piston stroke(mm)	120	120	50	



YAW-1000/2000/3000H SERIES

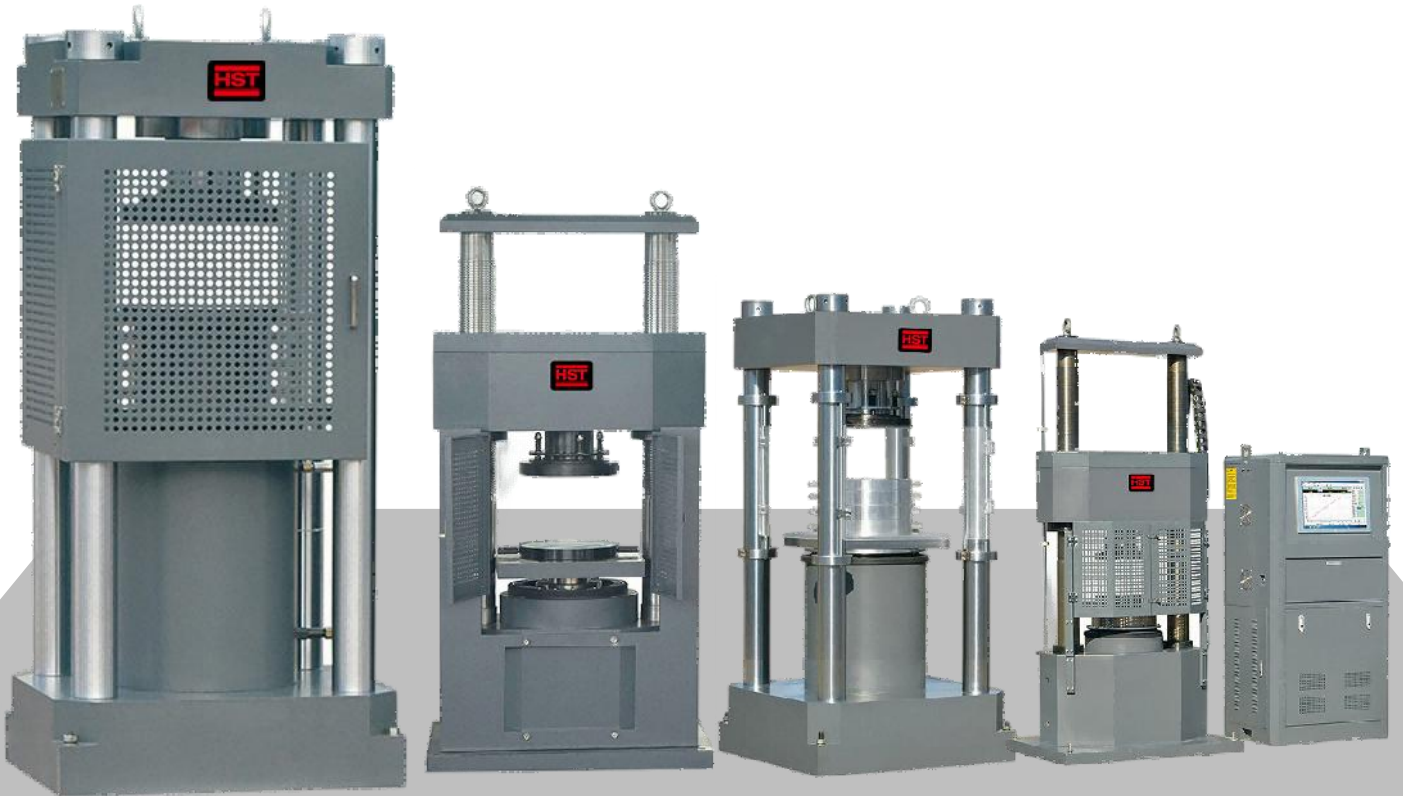
▼ Application:

This series of compression testing machine is widely used for compression strength determination of cement, concrete and rock. Equipped with optional fixtures and measurement devices, it can be used for concrete splitting tensile test and flexure test.

▼ Specifications

MODEL	YAW-1000H	YAW-2000H	YAW-3000H
Load capacity(kN)	1000	2000	3000
Test Accuracy	Class 0.5		
Force range	1%-100%FS		
Column spacing(mm)	520	520	540
Plate adjustment	Spacing block		
Compression platens(mm)	Φ300	Φ300	Φ300
Piston stroke(mm)	120	120	120
Testing speed(mm/min)	0-90	0-90	0-90
Noise	<62dB		







▼ Application:

YJW SERIES Elastomeric Bearing Testing Machine is mainly used to verify the mechanical properties of pot shape, spherical shape and pad shape bearings which are broadly used in highway, railway, bridge and buildings. It is capably of obtaining technical index of compressive modulus of elasticity, shearing modulus of elasticity, static shearing force, ultimate compressive strength, friction coefficient, rotation deformation, axial and lateral deformation under compression.

▼ Specifications

MODEL	YJW-5000	YJW-10000	YJW-20000	YJW-30000
Test Force Range(KN)	20-5000	40-10000	80-20000	120-30000
Test Force Accuracy (%)	Indication Value \pm 1			
Horizontal shear force(KN)	1000	2000	4000	6000
Horizontal Piston Stroke(mm)	180	250	250	300
Coner Push Force(KN)	300	600	1000	1000
Upright Deformation Measurement range(mm)	0-10(Resolution0.001)			0-20(Resolution0.001)
Radial Deformation Measurement range(mm)	0-10(Resolution0.001)			0-20(Resolution0.001)
Horizontal shearing Measurement range(mm)	0-150(Resolution0.001)			0-200(Resolution0.001)
Dimensions(mm)	5100*1200*3900	5575*1860*3660	8600*2300*5300	10520*3120*5800
Power	AC380V \pm 10%			
Gross Weight(kg)	15000	35000	90000	120000

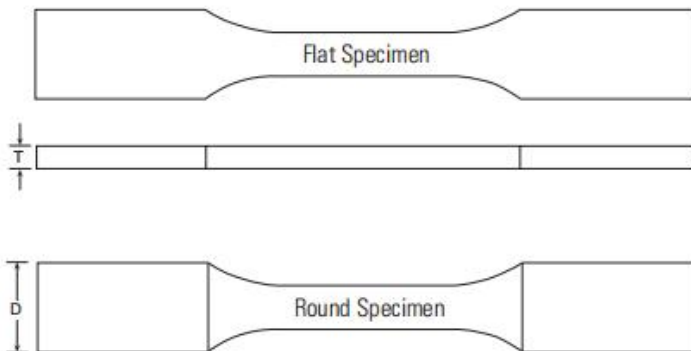
▼ Application:

This series computer Control Electro-hydraulic Servo Fatigue Testing Machine is mainly used to detect a variety of metals, non-metallic materials and small movable member, the static mechanical properties test. It can do tensile, compression, bending, low cycle and high cycle fatigue, crack growth, fracture mechanics test under sine, triangle, square wave, trapezoidal wave, random wave, combination waveform.

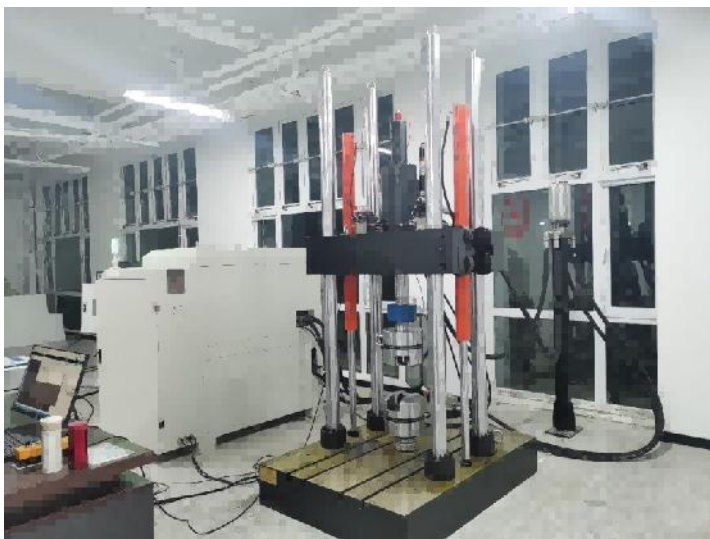
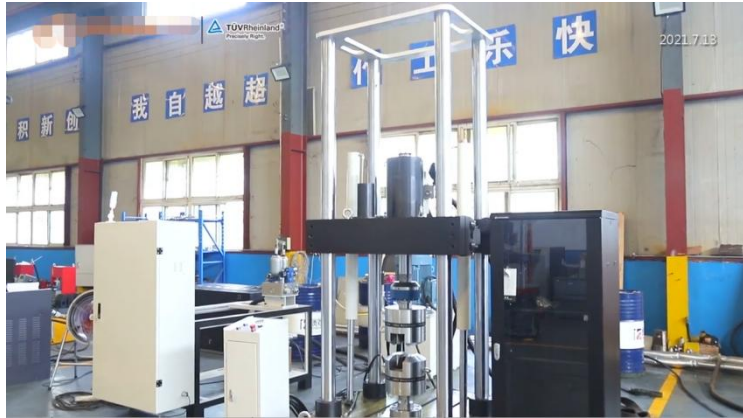
This Test machine is flexible, moving beam down, locking the sample holder by button operations, the use of advanced hydraulic servo drive technology loaded, high precision and high resolution dynamic load sensor magnetostrictive displacement sensor specimens force values and displacement.

▼ Specifications

Model			HWS-50	HWS-100	HWS-250	HWS-500
Force capacity	Static	kN	50	100	250	500
	Dynamic	kN	±40	±80	±160	±160
Actuator dynamic stroke		mm	100, 150, 250	100, 150, 250	150, 250	150
		(in)	(4, 6, 10)	(4, 6, 10)	(6, 10)	(6)
Min vertical test space -		mm	140	140	231	427
		(in)	(5.5)	(5.5)	(9.1)	(16.8)
Max vertical test space -		mm	1213	1213	1549	2002
		(in)	(47.8)	(47.8)	(61.0)	(78.8)
Working height		mm	922	922	922	922
		(in)	(36.3)	(36.3)	(36.3)	(36.3)
Column spacing(test space width)		mm	533	533	635	762
		(in)	(21.0)	(21.0)	(25.0)	(30.0)
Base width		mm	1018	1018	1112	1351
		(in)	(40.1)	(40.1)	(43.8)	(43.8)
Base depth		mm	698	698	737	896
		(in)	(27.5)	(27.5)	(29.0)	(35.3)









▼ Application:

This testing machine is mainly used to measure performance and creep rupture strength properties of various metals and alloys at high temperatures, it is special equipment for studying and testing materials performance in the iron and steel metallurgy, aerospace, scientific research institutes, universities, and quality inspection departments.

▼ Standards:

ASTMA370, ASTM E4, ASTM E8, ASTM E9, ISO6892, ISO7438, ISO7500-1, EN10002-4, GB/T228-2002, etc

**Electronic****Machinery**

▼ Specification

Load frame						
MODEL	RDJ-10/20	RDJ-30	RDJ-50	RDJ-100	RDJ-300	RDJ-500
Load capacity	10kN/20kN	30kN	50kN	100kN	300kN	500kN
Load accuracy	±0.5% of indicating					
Deformation accuracy	<±0.5% of reading					
Lower loading bar travel	200mm					
Loading Speed	0.01-50mm/min					
Load Frame Dimensions (cm)	210*71*54	220*71*54	320*95*74	239*73*54	320*95*74	320*95*74
Load Frame Weight (kg)	400	400	400	500	1000	1200
Furnace						
Temperature range	200 ^a ~1000 ^a					
Medial temperature zone range	150mm					
Temperature deviation	< 3 ^a					
Surface temperature of furnace	≤50 ^a					
Service life	≥7500H (under 1000 ^a)					
Maximum power consumption	2kW					
Furnace inner dimensions	(Inner diameter × length)(mm) Φ80×340					
Furnace out dimensions	(out diameter × length)(mm)Φ320×440					



▼Application:

This machine adopts mechatronics design, neat and elegant appearance. It is a precision equipment for performing process performance tests on metal sheets and strips. It can realize GB/T4156-2020 / ISO 20482-2013 "Metal Material Sheets and Strips Eric The Mori Cupping Test Method" meets the requirements of JJG 583-88 and JB/T7408-94, and also adopts the standard of ASTM E643-2008 to test the plastic deformation performance of metal sheets and strips during the test.

▼Specification

MODEL	GBW-60A	GBW-100A	GBW-300A
Max.Cupping Load	60kN	100kN	300kN
Load accuracy	±1%/±0.5%		
Stroke speed	0.005-250mm/min		
Specimen thickness	Standard 0.1-2mm,(Non-Standard 0.1-3mm)		
Max. Specimen Width	100mm	110mm	140mm
Test mold specifications (Standard)	Punch diameter:Φ20±0.05mm,		
Test mold specifications (Non-Standard)	Punch diameter : Φ15±0.05mm , Φ8±0.02mm, Φ3±0.02mm Press mold hole diameter : Φ18±0.1mm,		
Display resolution	0.01mm		



Universal Friction and Wear Testing Machine

▼Application:

The tile abrasion testing machine can simulate rolling, sliding and rolling & sliding combined movement under the certain contact pressure to complete point, line and plane simulating tests. It can be used to evaluate the friction and wear performance of lubricant, metal, plastics, coating, rubber, ceramics etc. It can not only content with the needs of traditional petrochemical industry to research, develop and inspect the various kinds of intermediate & high grade hydraulic oil, combustion engine oil and gear oil. Also it can be tested under dry condition, but also the needs of simulating evaluation to new material development and new technology research.

▼Specification

MODEL	MMW-1
Load range	10~1000N(stepless)
Relative error of load indicating value	±1%
Friction torque measuring range	2.5N.m
Relative error of friction torque indicating value	±2%
Rotate speed range of spindle	1~2000r/min, linear velocity up to over 4 m/s.
Test medium	oil,water,slurry,abrasive etc.
Temperature control range	Room temperature~200°C
Max. Distance between spindle of the Machine and lower friction coupling pate	>75mm
Time control range	10s~9999min
Power	220V, 50Hz.





Spring tensile and compression



Spring Torsion and Fatigue



▼ Application:

Mainly used for the determination of the impact toughness of non-metallic materials such as hard plastics (including plates, pipes, and plastic profiles), reinforced nylon, glass fiber reinforced plastic, ceramics, cast stone, and electrical insulating materials. This testing machine is an ideal testing equipment for the chemical industry, scientific research institutions, quality inspection departments of colleges and universities, etc.

▼ Standard:

ISO179—2000, GB/T1043—2008, JB/T8762—1998, GB/T 18743-2002, ISO180—2000,GB/T1843—2008, JB/T8761—1998, ASTM D256-2010, GB-T13525-1992



▼ Specification

MODEL		XJJD-5T	XJJD-15T	XJJD-50T	XJUD-5.5T	XJUD-22T	XJXD-5.5T	XJXD-50T
Impact energy(J)	Charpy	1,2,4,5J	7.5,15J	1,2,4,5,7.5,25,25,50	-	-	1,2,4,5	7.5,15,25,50
	Izod	-	-	-	2.75J、5.5J	11,22J	2.75,5.5	2.75,5.5,11,22
Impact velocity(m/s)	Charpy	2.9	2.9	2.9	-	-	2.9	2.9
	Izod	-	-	-	3.5	3.5	3.5	3.5
Pendulum advance angle					1500			
Strike center distance(mm)	Charpy	221	221	221				
	Izod	-	-	-	335	335	335	335
Blade filleted radius	Charpy	R=2±0.5	R=2±0.5	R=2±0.5	-	-	R=2±0.5	R=2±0.5
	Izod	-	-	-	R=0.8±0.2	R=0.8±0.2	R=0.8±0.2	R=0.8±0.2
Print out	Capacity. Angle, energy, etc.							
Print	with the printer							
power supply	AC220V±10% 50HZ							

▼ Application:

This machine is not only suitable for engineering plastics such as polyethylene, polyarylsulfone, fluoroplastics, nylon, etc., with higher melting temperature, but also suitable for plastics with lower melting temperature such as polyethylene, polystyrene, polypropylene, ABS resin, and polyoxymethylene resin. test. Especially suitable for universities, research institutes, quality inspection institutions, plastic manufacturers, plastic products and petrochemical industries.

▼ Standard

GB/T3682-2000 "Determination of Thermoplastic Melt Flow Rate and Melt Volume Flow Rate"

ISO 1133: 1997 "Determination of Thermoplastic Melt Mass Flow Rate MFR and Melt Volume Flow Rate MVR"

ASTM D1238 "Standard Test Method for Measuring Thermoplastic Melt Flow Rate by Extrusion Plastometer"



▼ Specification

MODEL	XNR-400A	XNR-400B	XNR-400CT	XNR-400DT	XNR-400ET
Test method	Quality method	Quality method, Volume method	Quality method	Quality method, Volume method	Quality method, Volume method
Temperature range	0°C-450°C				
Display method	LCD screen	LCD screen	Touch screen	Touch screen	Touch screen
Cutting method	Manual loading	manual and automatic	manual and automatic	manual and automatic	manual and automatic
Temperature display resolution	0.1°C				
Measuring range	MFR	0.1-100g/10min	0.1-100g/10min	0.1-100g/10min	0.1-150g/10min
	MVR	-	1-150cm ³ /10min	--	1-350cm ³ /10min
Timing accuracy	0.1S	0.1S	0.1S	0.1S	0.001S
Displacement accuracy	-	0.01mm	0.01mm	0.01mm	0.01mm

**▼ Application:**

The tester used to measure plastic, rubber, nylon, cable ... macro molecule material thermal deformation temperature and vicat softening temperature, the main sensor, element with high-quality, high reliability, security, the sample frame has the function of automatic up and down, simultaneity equip power test software system function mightiness, is a suit of special software of thermal deformation temperature, vi cat softening point temperature test.

▼ Standard

ISO 2507 Thermoplastics pipes and fittings- Vicat softening temperature - Part1: General test method

ISO 75 Plastics - Determination of temperature of deflection under load

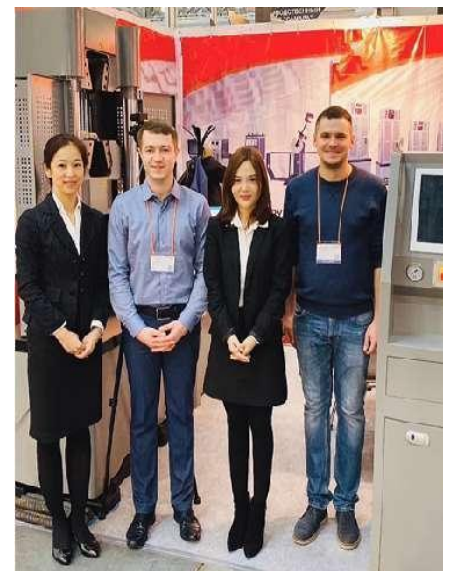
ISO 306 Plastics-Thermoplastic materials - Determination of Vicat Softening Temperature (VST)

**▼ Specification**

Model	HDTV3003S	HDTV3003ST	HDTV3003STL	HDTV3003W	HDTV3003WF
Structure	Table type	Table type	Floor Type	Table type	Floor Type
Display	LCD display	Touch Sreen	Touch Sreen	Computer control	Computer control
Temperature control range	room temperature—300°C				
Temperature rise speed	(120±10)°C/h (12±1°C/6min); (50±5)°C/h(5±0.5°C/6min)				
Temperature accuracy	±0.5 °C (50 degree heating rate)				
Temperature measurement point	1				
Maximum deformation error	0.1°C				
deformation range	0 ~ 10mm				
Maximum deformation error	±0.01mm				
Sample support span	64mm、100mm				
Number of test racks	1, 3, 4 (According to the customer request)				
Range of load	0.75N—50N				
Test space	60—120 mm (Adjustable continuously)				
Using media	Methyl silicone oil or transformer oil				
Cooling method	Natural cooling above 150°C, water cooling below 150°C or natural cooling				
Power supply	220VAC 50Hz				



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