

VELLTAX

HEAVY DUTY TESTING MACHINE



EXCELLENT
PERFORMANCE



EASY
TO USE



STRONG
POWER

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ELECTROMECHANICAL UNIVERSAL TESTING MACHINE

VX-WDS / VX-WDW

Load: 0.1-5kN



**EXCELLENT
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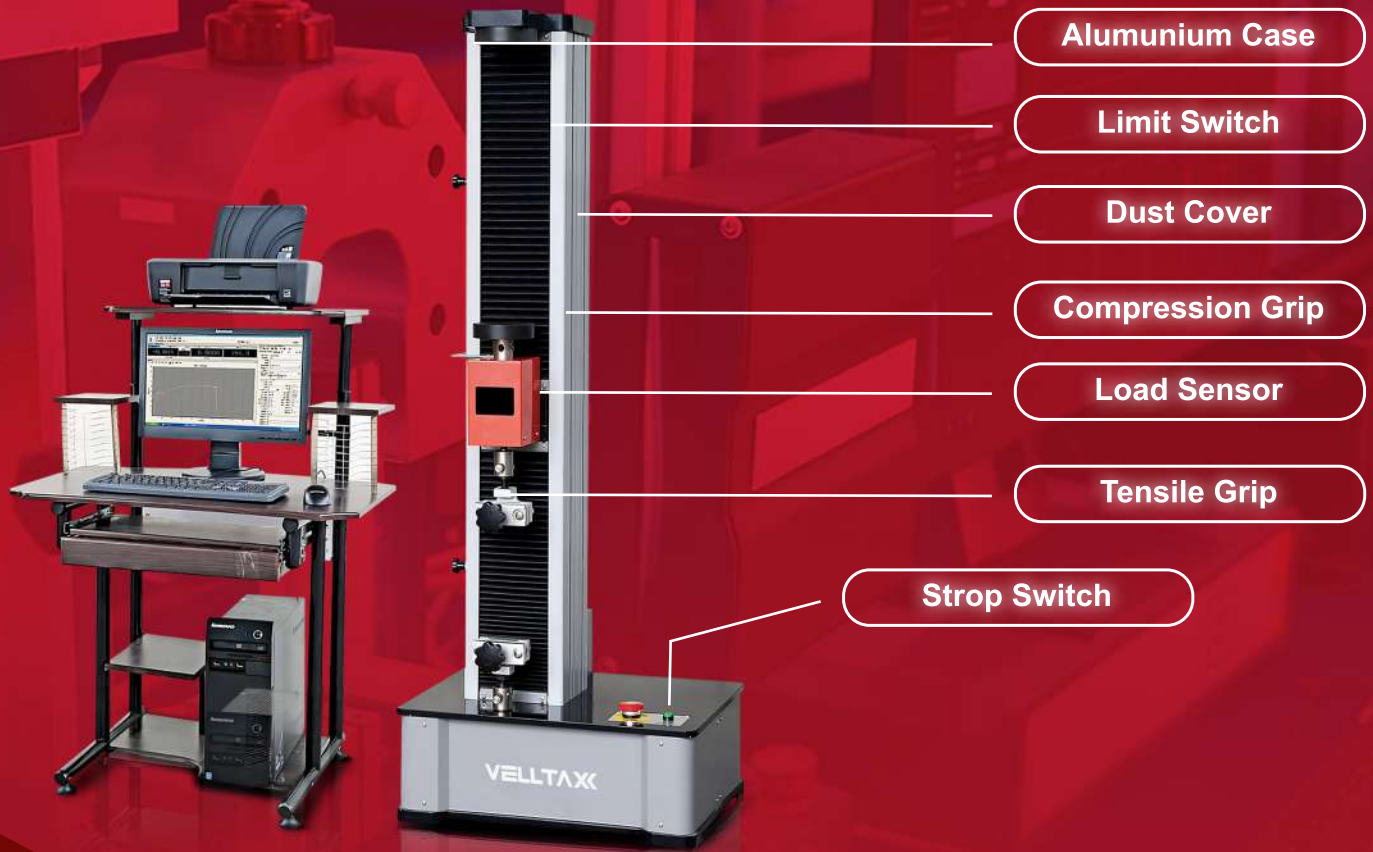
Application

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, 1S06892, ISO7438, 1SO7500-1, 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,



Specification :

MODEL	VX-WDS-01,02,03,05,1,2,3,5	VX-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°C - 30°C Relative humidity ≤ 80%	
Power Supply	AC220V±10%,50Hz/60Hz (can be customized)	
Grips	Wedge type, plate and other grips as consumer's demand	
Dimension (mm)	425*400*1315 mm	
Gross Weight	100 kg	

ELECTROMECHANICAL UNIVERSAL TESTING MACHINE

VX-WDW-5E ~ 100E

Load: 1-300 kN



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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

Specification :

MODEL	VX-WDW-5E	XV-WDW-10E	VX-WDW-20E	VX-WDW-30E	VX-WDW-50E	VX-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	0.01-1000
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	450
Compression Platen (mm)	φ98	φ98	φ98	φ98	φ98	φ98
Load Cell	High-precision USA lead 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)	850x590x1750			840x570x1850		950x660x2000
Net Weight (kG)	370	370	370	420	420	680

Notes :

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

ELECTROMECHANICAL UNIVERSAL TESTING MACHINE

VX-WDW SERIES

⬆ Load: 200-600 kN



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



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VX-WDW-200E / 300E



VX-WDW-500E / 600E

Specification :

MODEL	VX-WDW-200E	XV-WDW-300E	VX-WDW-500E	VX-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%	0.4%-100%	0.4%-100%	0.4%-100%
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 lead 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	

Notes :

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

HIGH AND LOW TEMPERATURE UNIVERSAL TESTING MACHINE

VX-WDW GD SERIES

Temperature : -40-1600 °C



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200-1200°C



-190-350°C



200-1600°C



-40-350°C

DIFFERENT ELECTROMECHANICAL D SERIES



EXCELLENT
PERFORMANCE



EASY
TO USE



STRONG
POWER



DIFFERENT ELECTROMECHANICAL E SERIES



EXCELLENT
PERFORMANCE



EASY
TO USE



STRONG
POWER



DIFFERENT ELECTROMECHANICAL H SERIES



EXCELLENT
PERFORMANCE



EASY
TO USE



STRONG
POWER



COMPLETE RANGE OF ACCESSORIES



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**EASY
TO USE**



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**Mechanical
Wedge Shape**



**Hydraulic Wedge
Tensile Grip**



Bending Grip



**Side Action Hydraulic
Tensile Grip**



Pneumatic Grips



Pneumatic Grips

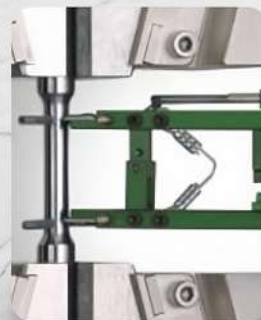
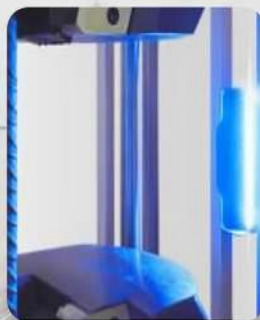


Pneumatic Grips



Pneumatic Grips

EXTENSOMETERS



HYDRAULIC UNIVERSAL TESTING MACHINE

VX-WAW-100 ~ 2000

Load: 100-2000kN



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Application

(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, ASTM 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.



Specification :

MODEL	VX-WAW-100D	VX-WAW-300D	VX-WAW-600D	VX-WAW-1000D	VX-WAW-1000E	VX-WAW-1200D	VX-WAW-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
Clamping Method	Hydraulic Automatic Clamp						
Power Supply	3-phase, AC380V, 50Hz (Can Be Customized)						

HYDRAULIC UNIVERSAL TESTING MACHINE

VX-WEW-100 ~ 2000

Load: 100-2000kN



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Application

(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, ASTM 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.



Specification :

MODEL	VX-WEW-100D	VX-WEW-300D	VX-WEW-600D	VX-WEW-1000D	VX-WEW-1000E	VX-WEW-1200D	VX-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
WEW Testing Speeds (mm/min)	Manual						
Clamping Method	Hydraulic Automatic Clamp						
Power Supply	3-phase, AC380V, 50Hz (Can Be Customized)						

TOP CYLINDER SERVO HYDRAULIC TESTING MACHINE

VX-WAW A SERIES

↑ Load: 300-3000kN



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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.

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

Specification :

MODEL	VX-WAW-300A	VX-WAW-600A	VX-WAW-1000A	VX-WAW-2000A	VX-WAW-3000A
Max. Load Capacity (kN)	300	600	1000	2000	3000
Structure	Four Column				
Accuracy of Testing Load (%)	$\pm 0.5/\pm 1$				
Accuracy of Deformation (%)	± 0.5				
Test Range	2%-100%				
Deformation Measurement Range	2%-100%				
Piston 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)	Φ 10-32	Φ 10-40	Φ 13 - Φ 26 Φ 26 - Φ 40	Φ 15 - Φ 40 Φ 40 - Φ 70	Φ 15 - Φ 40 Φ 40 - Φ 70
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

SINGLE TEST SPACE SERVO HYDRAULIC TESTING MACHINE

VX-WAW L SERIES

⬆ Load: 300-3000kN



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EASY
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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.

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

SINGLE TEST SPACE SERVO HYDRAULIC TESTING MACHINE

VX-WAW L SERIES



Specification :

MODEL	VX-WAW-300L	VX-WAW-600L	VX-WAW-1000L	VX-WAW-2000L	VX-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%				
Piston 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)	Φ 10-32	Φ 10-40	Φ 13 - Φ 26 Φ 26 - Φ 40	Φ 15 - Φ 40 Φ 40 - Φ 70	Φ 15 - Φ 40 Φ 40 - Φ 70
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

DOUBLE CYLINDER SERVO HYDRAULIC TESTING MACHINE

VX-WAW F SERIES

⬆ Load: 300-3000kN



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PERFORMANCE



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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.



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

Specification :

MODEL	VX-WAW-300F	VX-WAW-600F	VX-WAW-1000F	VX-WAW-2000F	VX-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%				
Piston 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)	Φ 10-32	Φ 10-40	Φ 13 - Φ 26 Φ 26 - Φ 40	Φ 15 - Φ 40 Φ 40 - Φ 70	Φ 15 - Φ 40 Φ 40 - Φ 70
Flat Insert (mm)	2-25	2-30	2-40; 40-60	10-40; 40-70	10-70; 4
Compression Platens (mm)	240*240	240*240	240*240	240*240	240*240
Dimensions of Load Frame (mm)	880x630x2980	880x630x2980	980x720x3530	1505x1186x4178	1505x1186x45
Weight (kg)	1500	3000	5000	8500	11500

STEEL STRAND TESTING MACHINE

VX-LEW / LAW

Load: 1000-2000kN



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Product Features :

1. Have 3 parts: Host & oil source & measurement control system
2. Automatic up, down, test and stop
3. Deepen the seat jaw can prevent the trumpet Vine deformation as a uniform stress in the test can improve health and life, make the holding more firm and smooth
4. Between the seat jaw and the jaw plate is added wear-resisting support board, protect the seat jaw and plate card make the seat jaw more flexible
5. Between the host base and the screw using a cone bearing which makes the screw rotation more stable and reliable, while solving the influence gap in the test progress
5. All-inclusive host type is designed to ensure that its super rigidity to withstand loads track deformation

Product Description :

This machine is mainly used for the process of tensile test, compression test, bending test and shear test of metal materials. It can also be used for compression test and flexure test of cement, brick, rubber tiles and other non-metallic materials. With special aids, it can also be used to process the mechanical property test of fasteners, steel wire ropes, components. It applies to the aerospace industry, inspection technical colleges and universities, industrial mining, research institutes and other fields.

STEEL STRAND TESTING MACHINE

VX-MGW-6500

Load: 1000-2000kN

Static Loading Anchoring Testing Machine

VX-MGW-6500 micro-electro-hydraulic servo static load anchorage testing machine is a high-precision material testing equipment that adopts hydraulic power source drive, electro-hydraulic servo control technology, computer data acquisition and processing, and can realize closed-loop control and automatic detection.



VX-ERT-300/500

Steel Strand Tensile Stress Relaxation Testing Machine

This series of testing machines are mainly used for the relaxation test of steel strand, and can detect the uniaxial tensile relaxation strength of steel strand and other metal wires. It can be widely used in quality inspection departments, construction units, steel wire and steel production enterprises. It is a new type of test equipment for modern building mechanics test.

HORIZONTAL TENSILE TESTING MACHINE SERIES

VX-WAL SERIES

↑ Load: 1000-2000kN



EXCELLENT
PERFORMANCE



EASY
TO USE



STRONG
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Application

VX-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.

Standards

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

HORIZONTAL TENSILE TESTING MACHINE SERIES

VX-WAL SERIES

⬆ Load: 1000-2000kN



EXCELLENT
PERFORMANCE



EASY
TO USE



STRONG
POWER



Application

VX-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.

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



Specification :

MODEL	VX-WAL-500	VX-WAL-1000	VX-WAL-2000	VX-WAL-5000	VX-WAL-10000	VX-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 1000 2000	500 1000 3000	500 1000 3000	500 1000 3000	1000 3000 5000	2000 5000 8000
Ram Stroke (mm)	300 500 1000	300 500 1000	300 500 1000	300 500 1000	500 800 1000	500 800 1000

PENDULUM IMPACT TESTING MACHINE

DIAL GAUGE
DISPLAY SERIES

VX-JB B SERIES

Capacity : 150/300/500J



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**

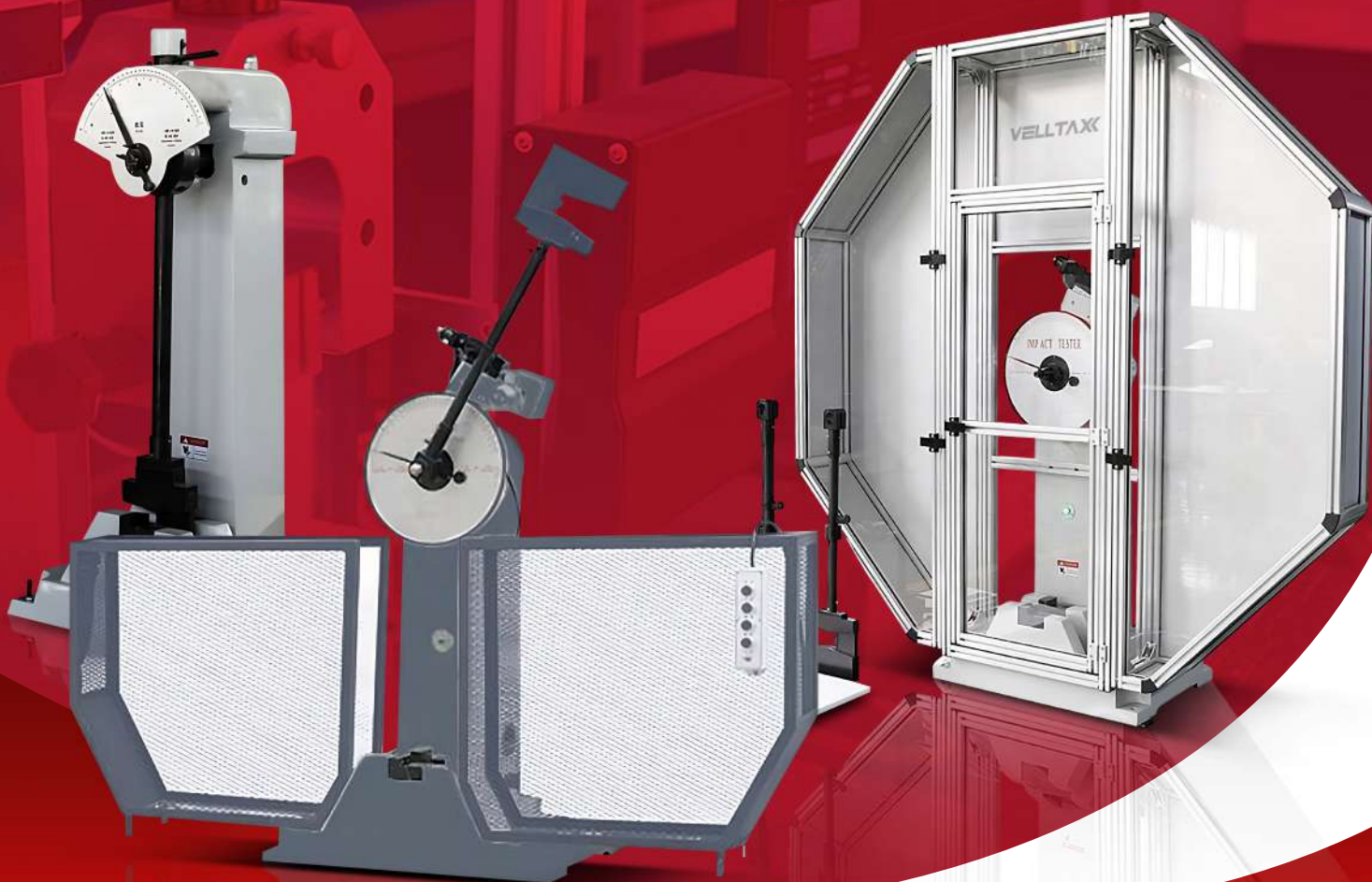


Application

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



Specification :

MODEL	VX-JB-300	VX-JB-300B	VX-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 x 630 x 1520	2124 x 600 x 1340	2144 x 736 x 1390
Gross Weight (kg)	320	550	750

PENDULUM IMPACT TESTING MACHINE

WITH ANALOGUE
DIAL GAUGE AND
TOUCH SCREEN
DISPLAY SERIES

VX-JBS / VX-JBW B SERIES

Capacity : 150/300/500J



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



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

VX-JBS-with analogue dial gauge and touch
screen display

VX-JBW- with analogue dial gauge and
Computer display.



Specification :

MODEL	VX-JBS-300B/VX-JBW-300B	VX-JBS-500B/VX-JBW-500B
Type	VX-JBS SERIES Touch screen display/ VX-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

PENDULUM IMPACT TESTING MACHINE

VX-JBW / VX-JBS C SERIES

Capacity : 300-750 J



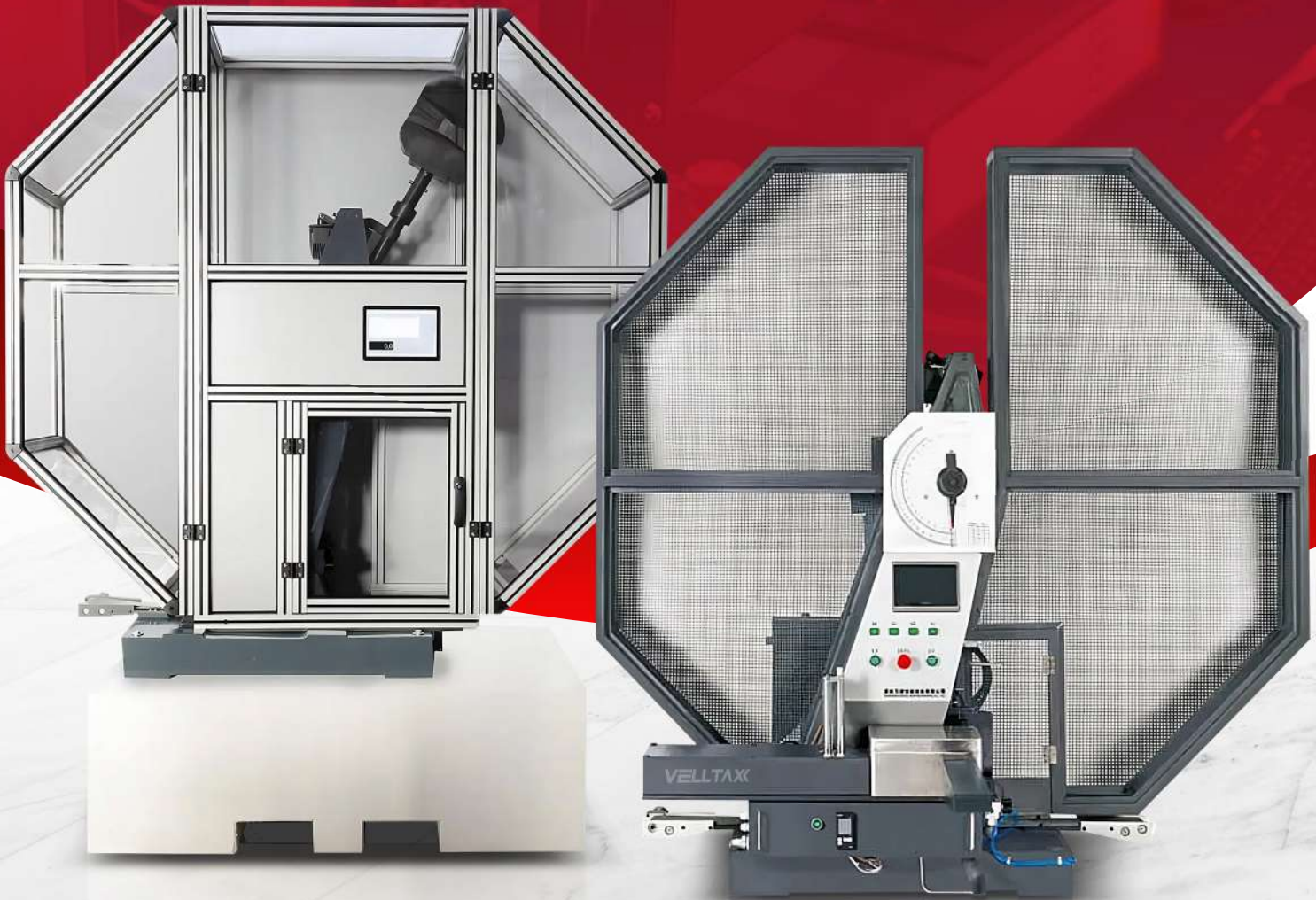
**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



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

Specification :

MODEL		VX-JBW-300C VX-JBS-300C	VX-JBW-450C VX-JBS-450C	VX-JBW-600C VX-JBS-600C	VX-JBW-750C VX-JBS-750C
Control Method		VX-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		55x10x10, 55x10x7.5mm, 55x10x5mm			
Round Angle of Impact Edge		R2-2.5mm, R8±0.05mm			
Angle Accuracy		0.1°			
Power Supply		3phs, 380V/220V±10%, VAC50Hz or specified			

CHARPY IMPACT SPECIMEN BROACHER

VX-VU SERIES



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



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.

MODEL	VX-VU-1S	VX-VU-2Y
Shape of sample notch	V-Shape (2mm) or U-Shape (2mm)	V2 mm, U2 mm, (U3mm, U5mm Alternative)
Sample Size (mm)	10 x 10 x 5 (or 10 x 10 x 7.5, 10 x 10 x 2.5	
Cutting Mode	Manual	Auto
Broach Material	W18Cr4V	
Broaching Speed	/	2.5 m/min
Max. Dimension (mm)	350x350x600	660x500x1240
Weight (kg)	100	200
Power Supply	/	380V 50Hz 0.4 Kw

U/V NOTCH PROJECTOR

VX-VU SERIES



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



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.

VX-CTS-50 is a special type of projector, which amplifies and projects AS or V-shaped profiles, measured sections of the screen to check their profile and shape with high accuracy utilizing the optical projection method. It is widely used to inspect U and V-shaped notch impact specimens with the feature of easy operation, simple structure, direct inspection and high efficiency.





Specification :

MODEL	VX-CST-50
Screen Diameter	Φ 200
Square Work Table Dimension	110*125
Round Work Table Dimension	Φ 90mm
Work Table Glass Diameter	Φ 70mm
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	18 Kg
Power Supply	AC 220V, 50 Hz, 150 KW

IMPACT TESTING LOW TEMPERATURE CHAMBER

VX-DWC SERIES

+30~-196°



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**

Liquid Nitrogen

Compressor



Application :

VX-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.

Product Features

1. Valve is imported evaporation-condensing machine.
2. Controlled by digital intelligent instrument presentation of temperature value, automatic control of temperature, automatic time and alarm.
3. High safety, refrigerate fast, large volume.



Specification :

MODEL	VX-DWC-40	VX-DWC-60	VX-DWC-80	VX-DWC-100	VX-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 x 120 x 80				240 x 150 x 150
Specimen Dimension	10x10x55 mm				
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 ~ -40°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				

DROP WEIGHT IMPACT TESTING MACHINE

VX-NDT SERIES

↑ Load: 2000-6000 J



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



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



Specification :

MODEL	VX-NDT-2000	VX-NDT-3000	VX-NDT-6000
Maximum Energy (J)	2000	3000	6000
Minimum Energy (J)	300	350	750
Maximum Tup Mass (Kg)	70	100	200
Tup Mass Accuracy		$\pm 1\%$	
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)		$\leq \pm 10$	
Hardness of Tup Nose		HRC58-62	
Radius of Tup Nose (mm)		$R25.4 \pm 0.1$	
Height Accuracy (mm)		$\leq \pm 10$	
Hardness of Tup Nose		HRC58-62	
Radius of Tup Nose (mm)		$R25.4 \pm 2.5$	
Sample Centered Error (mm)		± 1	
Support Anvil Span		P-1:305, P-2, P-3:100	
Specimen Dimension		P-1:(360 ± 1) x (90 ± 2) x (25 ± 2.5)	
Power Supply		380V $\pm 10\%$, 50/60Hz	

DROP WEIGHT IMPACT TESTING MACHINE

VX-DWTT SERIES

⬆ Load: 20000-1000000 J



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**

Application :

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

Standards :

ASTM E436, API RP*53L GB/T 8363





Specification :

MODEL	VX-DWTT-20000	VX-DWTT-30000	VX-DWTT-50000	VX-DWTT-800000	VX-DWTT-1000000
Maximum Energy (J)	2000	3000	50000	800000	100000
Minimum Energy (J)	8000	8000	20000	20000	20000
Maximum Tup Mass (Kg)	630	630	1600	1600	1600
Tup Mass Accuracy	$\pm 1\%$				
Weight Mass (mm)	120	390	360	780	1380
Weight Mass Accuracy	$\pm 0.5\%$				
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 ~ 7.14	5 ~ 8.16	5 ~ 8.16
Height Accuracy (mm)	$\leq \pm 10$				
Hardness of Tup Nose	HRC58-62				
Radius of Tup Nose	R25 \pm 0.1mm				
Hardness of Tup Nose	HRC58-62				
Radius of Tup Nose	R25. 4 \pm 2.5mm				
Sample Centered Error	± 1 mm				
Specimen Dimension	(300 \pm 5mm)*(75 \pm 1.5mm)*(3-50)mm;(305 \pm 19)*(76.2 \pm 3)*(3-50)mm				

WIRE REPEATED BENDING TEST

VX-JWJ-10



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



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

Specification :

MODEL	VX-JWJ-10
Sample Diameter	1-10mm
Bending Angle	$\pm 90^\circ$
Bending Speed	≤ 60 times/min
Sample Length	150-200

STEEL BENDING TESTING MACHINE

VX-40E / VX-50E



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



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).

MODEL	VX-40E	VX-50E
Bending Diam of Steel Bar	Φ 6 – Φ 40 mm	Φ 6 – Φ 50 mm
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	Φ 580mm	Φ 860mm
Motor Power	1.5kw	3kw

STEEL BENDING TESTING MACHINE

VX-40E / VX-50E



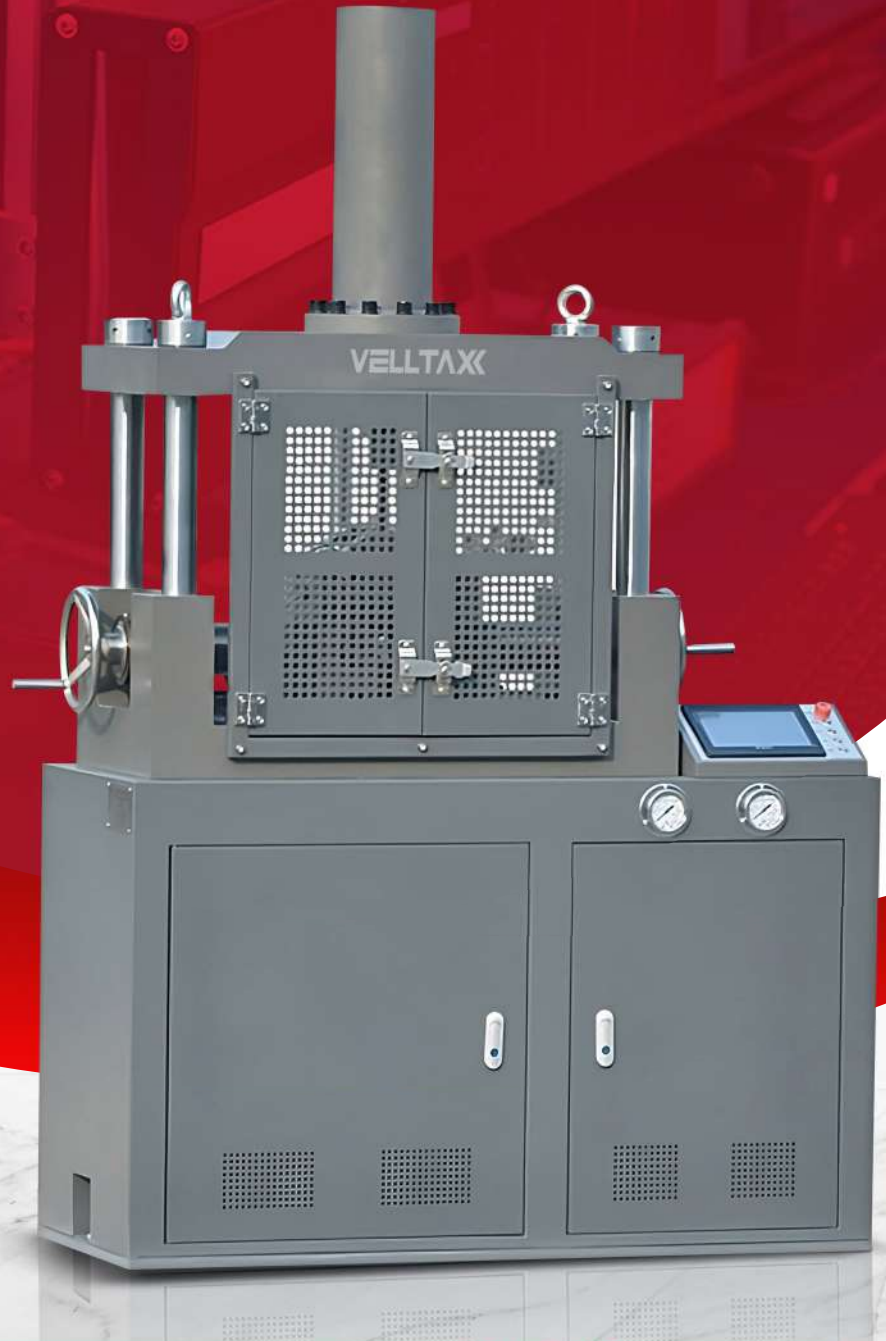
**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



Application :

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

Standards : ISO7438, ASTM A370

MODEL	VX-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)	Φ 6 – Φ 32
Bending Head Diameter (mm)	Φ 6 – Φ 128
Maximum Distance of Rollers (mm)	300
Cylinder Loading Speed (mm/min)	About 120
Main Engine Dimensions (mm)	1200 x 550 x 2000
The Engine Power (kW)	1.1
The Host Weight (kg)	About 1100

WIRE TORSION TESTING MACHINE



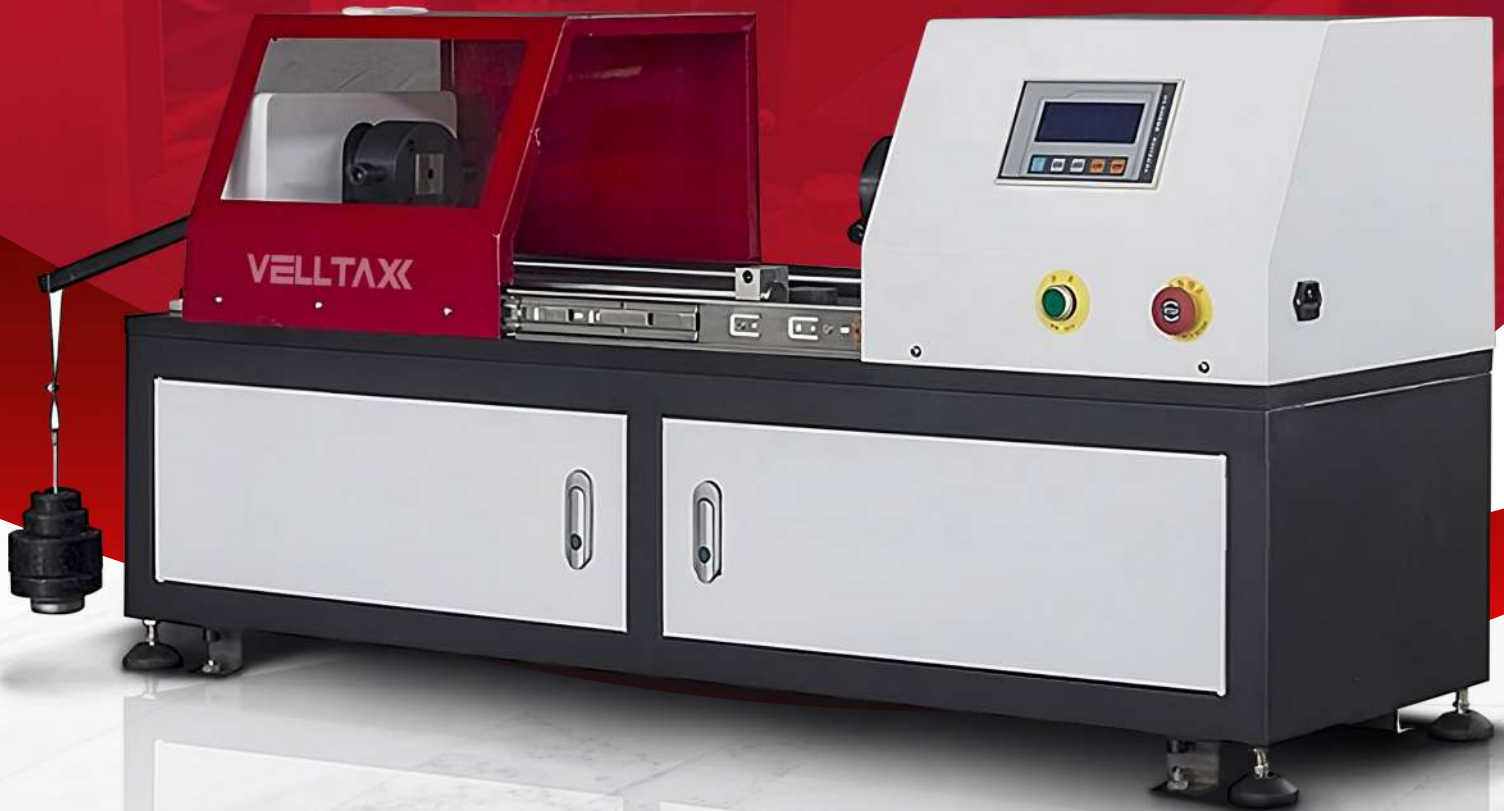
**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



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.

1. Main machine: adopts horizontal structure, and the main structure adopts frame structure to ensure the rigidity of the whole machine. The mandrel is made of high-quality alloy structural steel with smooth surface and high rigidity to ensure its service life.
2. Drive system: motor drive, large rotating torque, uniform loading, stable and no impact.
3. Transmission system: use precision reducer to ensure the uniformity, stability and high transmission accuracy of the transmission.



Specification :

MODEL	VX-HEZ-3	VX-HEZ-6	VX-HEZ-10
Max. Clamp Metal Wire Diameter (mm)	Φ 1-3	Φ 1-6	Φ 3-10
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)		< Φ 0.4	
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	

MATERIALS TORSION TESTING MACHINE

VX-HEZ-3 / 6 / 10



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



Application :

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

MATERIALS TORSION TESTING MACHINE

VX-HEZ-3 / 6 / 10

Table Model



EXCELLENT
PERFORMANCE



EASY
TO USE



STRONG
POWER



Application :

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

Specification :

MODEL	VX-NDS-200 VX-NDW-200	VX-NDS-500 VX-NDW-500	VX-NDS-1000 VX-NDW-1000	VX-NDS-2000 VX-NDW-2000	VX-NDS-3000 VX-NDW-3000	VX-NDS-5000 VX-NDW-5000
Maximum Torque N/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					
Cuck Spacing Effectively	600mm				650mm	
Power Supply	220V ± 10%, 50Hz					

300KN SERVO COMPRESSION TESTING MACHINE

VX-YAW 300D/300E SERIES



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



Application :

This type of machine is widely used for compression strength determination of cement, bricks and other building materials, and this machine adopt computer auto control, with constant test speed, constant stress, test force keeping and other control mode. The computer realize test data and test curve display, save, manage function, can print test report. With special fixtures, can test other material compression and flexural testing.

Standards :

EN 196, ISO 679, ASTM C 109 and C 349



Specification :

MODEL	VX-YAW-10	VX-YAW-300D	VX-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 Spaceing (mm)	190	190	190	
Distance between the upper and lower platen	390	390	180	
Compression Platens (mm)	150*200	150*200	Φ 108 / Φ 60	
Piston Stroke (mm)	120	120	50	

COMPRESSION TESTING MACHINE

VX-YAW1000/2000/3000H SERIES



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



Product Features :

- 1). Computer control up, down, stop and loading progress.
- 2). Electric ball screw adjusts the test chamber,
- 3). Unibody desktop oil source control cabinet.
- 4). This machine consists of engine host, oil source and control system.
- 5). Can realize the degree of load, such as load or stress level of loading.
- 6). Can automatic printing.

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.



Specification :

MODEL	VX-YAW-1000H	VX-YAW-2000H	VX-YAW-3000H
Load Capacity	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)	Φ 300	Φ 300	Φ 300
Piston Stroke (mm)	120	120	120
Testing Speed (mm/min)	0-90	0-90	0-90
Noise	< 62dB		

COMPRESSION TESTING MACHINE

DIFFERENT TYPE SERIES



EXCELLENT
PERFORMANCE



EASY
TO USE



STRONG
POWER



COMPRESSION TESTING MACHINE

DIFFERENT TYPE SERIES



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



ELASTOMERIC BEARING TESTING MACHINE

VX-YJW SERIES**Capacity: 2000 - 30000kN****EXCELLENT
PERFORMANCE****EASY
TO USE****STRONG
POWER****Application :**

VX-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 capable 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.



Specification :

MODEL	VX-YJW-5000	VX-YJW-10000	VX-YJW-20000	VX-YJW-30000
Test Force Range (KN)	20-5000	40-10000	80-20000	120-30000
Test Force Accuracy (%)	Indication Value ± 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 (Resolution 0.001)			0-20 (Resolution0.001)
Radial Deformation Measurement Range (mm)	0-10 (Resolution 0.001)			0-20 (Resolution0.001)
Horizontal Shearing Measurement Range (mm)	0-10 (Resolution 0.001)			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

FATIGUE TESTING MACHINE

VXWS SERIES

Capacity: 50 - 1000kN



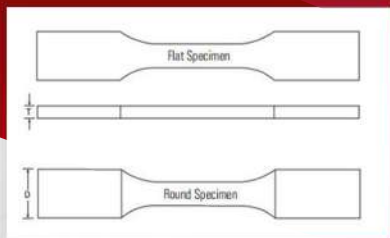
**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



Application :

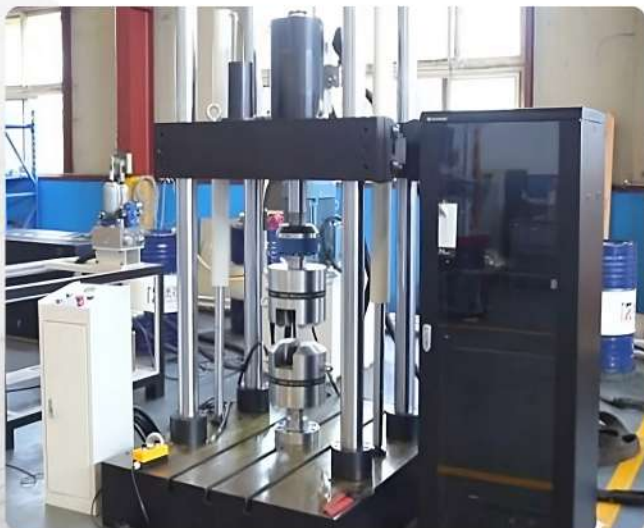
This series computer Control Electro-hydraulic Servo Fatigue Testing Machine is mainly used to detect a variety of metals, non-metallic materials and small movable member, the static mechanical properties test. It can do tensile, compression, bending, low cycle and high cycle fatigue, crack growth, fracture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

Specification :

MODEL			VXWS-50	VXWS-100	VXWS-250	VXWS-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)	(48.8)
Bases Depth		mm	698	698	737	896
		(in)	(27.5)	(27.5)	(29.0)	(35.3)

FATIGUE TESTING MACHINE

VXWS SERIES



CREEP AND STRESS RUPTURE TESTING MACHINE

VX-RDJ SERIES

⬆ Load: 10 - 300kN



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



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,
ASTME8, ASTM E9,
ISO6892, ISO7438,
ISO7500-1, EN10002-4,
GB/T228-2002, etc

Specification :

LOAD FRAME

MODEL	VX-RDJ-10/20	VX-RDJ-30	VX-RDJ-50	VX-RDJ-100	VX-RDJ-300	VX-RDJ-500
Load Capacity	10Kn/20kN	30kN	50kN	100kN	300kN	500Kn
Load Accuracy	$\leq \pm 0.5\%$ of indicating					
Deformation Accuracy	$\leq \pm 0.5\%$ of indicating					
Lower Loading Bar Travel	200mm					
Loading Speed	0.01-50 mm/min					
Loading 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	$\leq 50^a$
Service Life	$\geq 7500H$ (Under 1000 ^a)
Maximum Power Consumption	2Kw
Furnace Inner Dimensions	(inner diameter x length)(mm) $\phi 80 \times 340$
Furnace Out Dimensions	(out diameter x length)(mm) $\phi 320 \times 440$

ERICHSEN CUPPING TESTING MACHINE

VX-RDJ / VX-MCR SERIES

↑ Load: 60 - 300kN



EXCELLENT
PERFORMANCE



EASY
TO USE



STRONG
POWER



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	VX-GBW-60A	VX-GBW-100A	VX-GBW-300A
Max. Cupping Load	60kN	100kN	300Kn
Load Accuracy	$\pm 1\% / \pm 0.5\%$		
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 : $\phi 20 \pm 0.05\text{mm}$		
Test Mold Specifications (Non-Standard)	Punch Diameter : $\phi 15 \pm 0.05\text{mm}$, $\phi 8 \pm 0.02\text{mm}$, $\phi 3 \pm 0.02\text{mm}$ Press mold hole diameter : $\phi 18 \pm 0.1\text{mm}$		
Display Resolution	0.01mm		

UNIVERSAL FRICTION AND WEAR TESTING MACHINE

VX-MMW 1

↑ Load: 60 - 300kN



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**

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 inter mediate & 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	VX-MMW-1
Load range	10-1000N (stepless)
Relative error of load Indicating Value	$\pm 1\%$
Friction torque measuring Range	2.5N.m
Relative error of friction torque indicating value	$\pm 2\%$
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 TESTING MACHINE SERIES



EXCELLENT
PERFORMANCE



EASY
TO USE



STRONG
POWER



SPRING TORSION AND FATIGUE

SPRING TESTING MACHINE SERIES



EXCELLENT
PERFORMANCE



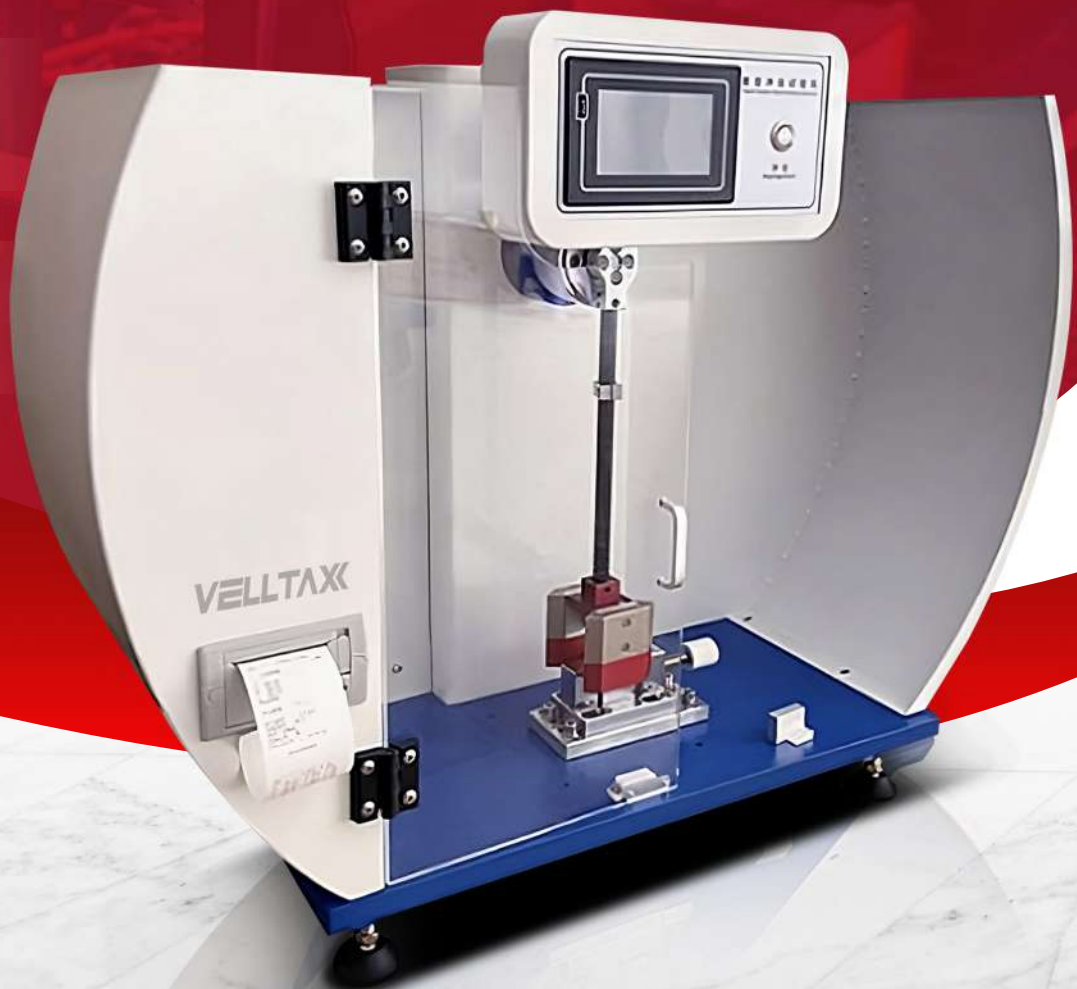
EASY
TO USE



STRONG
POWER



PENDULUM IMPACT TESTING MACHINE

VX-XJJD SERIES**↑ PLASTIC IMPACT****EXCELLENT
PERFORMANCE****EASY
TO USE****STRONG
POWER****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.

Standards :

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		VX-XJJD 5T	VX-XJJD 15T	VX-XJJD 50T	VX-XJUD 5.5T	VX-XJUD 22T	VX-XJXD 5.5T	VX-XJXD 50T
Impact Energy (J)	Charpy	1,2,4,5J	7.5, 15J	1,2,,4,5,7. 6,25,25,50	-	-	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						

MELT FLOW INDEXER

SPRING TESTING MACHINE SERIES

↑ PLASTIC IMPACT



EXCELLENT
PERFORMANCE



EASY
TO USE



STRONG
POWER





Specification :

MODEL		VX-XNR-400A	VX-XNR-400B	VX-XNR-400CT	VX-XNR-400DT	VX-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	0.1-100g/10min	0.1-150g/10min
	MVR	-	1-150cm ³ /10min	-	1-350cm ³ /10min	150-5000cm ³ /10min
Timing Accuracy		0.1S	0.1S	0.1S	0.1S	0.001S
Displacement Accuracy		-	0.01mm	0.01mm	0.01mm	0.01mm

VICAT SOFTENING POINT TEMPERATURE TESTER

SPRING TESTING MACHINE SERIES



EXCELLENT
PERFORMANCE



EASY
TO USE



STRONG
POWER



Specification :

MODEL	VXDTV-3003S	VXDTV-3003ST	VXDTV-3003STL	VXDTV-3003W	VXDTV-3003WF
Structure	Table Type	Table Type	Floor Type	Table Type	Floor Type
Display	LCD Display	Touch Screen	Touch Screen	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				

ROCKWELL HARDNESS TESTER SERIES



EXCELLENT
PERFORMANCE



EASY
TO USE



STRONG
POWER

VXR-150A



VXRD-150



VXRS-150



VXRS-150T



Application Fields

Industrial production, Inspection of product quality on processing technology. Ferrous and nonferrous metals, Hardened steel, tempered steel, annealed steel, hardened steel, sheet of various thicknesses, carbide materials, powder metallurgy materials, hardness and thermal spray coating.

Specification :

MODEL	VXR-150A	VXRD-150	VXRS-150	VXRS-150T
Function	Manual	Electric		
Indication of Hardness Value	Dial Display		Digital Display	Touch Screen
Data Output	/		Built-in Printer, RS232	
Preliminary Test Force	98 N.07N			
Total Test Force	588.4N, 980.7, 1471N (60, 100, 150kgf)			
Test Range	(20-88)HRA; (20-100)HRB; (20-70)HRC.			
Ball Indenter	ϕ 1.588mm			
Max. Test Height	170mm	200mm	210mm	
The Distance Between Pressure Head Center and The Wall	135mm	130mm	165mm	
Hardness Resolution	0.5HR		0.1HR	
Dimensions (mm)	466*238*630	510*230*730	220*510*694	220*510*694
Weight	70 Kg	75 Kg	90 Kg	90 Kg
Power Supply	/	AC 220V, 50Hz		

HIGH STROKE ROCKWELL HARDNESS TESTER SERIES



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**

VXR-150B

VXRS-150BT

VXRD-150B

VXRS-150BT



Application Fields

Rockwell hardness measurement of ferrous metals, non-ferrous metals and non-metallic materials. Wide range of applications, suitable for rockwell hardness testing of hardening, quenching and other heat-treated material.

Specification :

MODEL	VXR-150B	VXRD-150B	VXRS-150B	VXRS-150BT
Function	Manual	Electric		
Indication of Hardness Value	Dial Display		Digital Display	Touch Screen
Date Output	/		Built-in Printer, RS232	
Preliminary Test Force	98 N.07N			
Total Test Force	588.4N, 980.7, 1471N (60, 100, 150kgf)			
Test Range	(20-88)HRA; (20-100)HRB; (20-70)HRC.			
Bali Indenter	ϕ 1.588mm			
Max. Test Height	400mm			
The Distance Between Pressure Head Center and The Wall	165mm			
Hardness Resolution	0.5HR		0.1HR	
Dimensions (mm)	230*500*900	230*500*900	250*510*905	
Weight	140kg	140kg	135kg	
Power Supply	/	AC 220V, 50Hz		

SUPERFICIAL ROCKWELL HARDNESS TESTER SERIES



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**

VXSR-45

VXSRD-45

VXSRS-45

VXSRS-45T



Application Fields

Superficial Rockwell Hardness Tester suitable for measuring superficial rockwell hardness of Ferrous Metals, Alloy Steel, Carbide and Metal after treated surface (carburizing, nitriding, plating layer). Especially suitable for precision measurement of Parallel Planes.

Specification :

MODEL	VXSR-45	VXSRD-45	VXSRS-45	VXSRS-45T
Function	Manual	Electric		
Indication of Hardness Value	Dial Display		Digital Display	Touch Screen
Data Output	/		Built-in Printer, RS232	
Total Test Force	15Kgf(147.10N), 30Kgf(294.20N), 45Kgf(441.30N)			
Measuring Range	70-94HR15N, 67-93HR15T, 42-86HR30N, 29-82HR30T, 20-77HR45N, 10-72HR45T			
Max. Test Height	170mm	200mm	210mm	
The Distance Between Pressure Head Center and The Wall	135mm	130mm	135mm	
Hardness Resolution	0.5HR		0.1HR	
Dimensions (mm)	466*238*630	510*230*730	510*290*730	
Weight	65 kg	75 kg	80 kg	
Power Supply	/	AC 220V, 50Hz		

PLASTIC ROCKWELL HARDNESS TESTER SERIES



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**

VX-XHR-150

VX-XHRD-150

VX-XHRS-150

VX-XHRS-150T



Application Fields

Plastic Rockwell Hardness Tester is a specialized test non-metallic, plastic, hard rubber, synthetic resin, friction material and soft metal hardness tester.

Specification :

MODEL	VX-XHR-150	VX-XHRD-150	VX-XHRS-150	VX-XHRS-150T
Function	Manual	Electric		
Indication of Hardness Value	Dial Display		Digital Display	Touch Screen
Data Output	/		Built-in Printer, RS232	
Total Test Force	588.4N, 980.7, 1471N (60, 100, 150kgf)			
Measuring Range	70-100HRE, 50-11HRL, 50-115HRM, 50-115HRR.			
Max. Test Height	170mm	200mm	210mm	
The Distance Between Pressure Head Center and The Wall	130mm	130mm	135mm	
Hardness Resolution	0.5HR		0.1HR	
Dimensions (mm)	466*238*630	510*230*730	510*290*730	
Weight	65 kg	75 kg	80 kg	
Power Supply	/	AC 220V, 50Hz		

NOSED ROCKWELL HARDNESS TESTER

VXRS-TDXC SERIES



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



Application :

Specially designed pressure head is extended horizontally, can measure the parts that are unable to be measured by the general hardness tester, such as ring and tube, with the minimum test inner diameter of 25mm

Product Features :

- > More samples and test information, the measurement data U disk saved in EXCEL format, easy to edit and process. Adopting electronic and electric loading, high precision sensor, with unique closed loop control system.
 - > Touch screen interface, easy to operate, directly select the hardness scale, the force value is automatically changed in the test parameters.
 - > According to the standard hardness block, the three segments of each hardness corrected.
- The test force can be modified automatically by standard dynamometer. Auto-loading main test force

Specification :

MODEL	VXRS-150TDXC	VXRS-45TDXC	VXRS-150/45TDXC
Rockwell Initial Test Force	10kgf(98.07N)	3.0kgf(29.4N)	10kgf(98.07N), 3.0kgf(29.4N)
Rockwell Total Test Force	60kgf(588N) 100kgf(980N) 150kgf(1471N)	15kgf(147.1N) 30kgf(249.2N) 45kgf(441.3N)	60kgf(588N), 100kgf(980N) 150kgf(1471N), 15kgf(147.1N) 30kgf(249.2N), 45kgf(441.3N)
Rockwell Hardness Scale	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRR, HRP, HRS, HRV	15N, 15T, 15W, 15X, 15Y, 30N, 30T, 30W, 30X, 30Y 45N, 45T, 45W, 5X, 45Y	15B, 15T, 15W, 15X, 15Y, 30N 30T, 30W, 30X, 30Y, 45N, 45T, 45W 5X, 45Y
Dwell Time	0-99s		
Hardness Resolution	0.1HR		
Test Force Error	<1.0%		
Data Output	LCD Display		
Scale Conversion	Brinell, Vickers	Brinell, Vickers	Superficial Rockwell Brinell, Vickers
Carried Standard	BSEN 6508, ISO 6508, ASTM E18, GB/T230		
Max. Height of Sample	300mm		
The Distance of Indenter to the wall	250mm		
Dimension	720x260x840mm		
Weight	80kg		
Power	AC220+5%, 50~60Hz		

AUTOMATIC ROCKWELL HARDNESS TESTER-Z AXIS RISING

VXRS-TDXC-Z SERIES



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



Product Features :

- 1.) Automatic testing process, put the sample, press the "Start" button to obtain the hardness value of each sample
- 2.) Samples automatically rise (no height restrictions)
- 3.) Automatic initial test force is applied, the main test force is automatically applied
- 4.) Automatic measurement of hardness, hardness values of automatic digital display
- 5.) Touch screen interface, easy operation, multi-language versions
- 6.) Available for using after starting up, unnecessary for installing weights or Debugging
- 7.) Electric loading, closed-loop control
- 8.) Automatically apply the initial load and main load
- 9.) Automatic correction of high, medium and low hardness numbers
- 10.) Automatic correction of load, with the force accuracy increased by a numerical level

Specification :

MODEL	VXRS-150TDX-Z	VXRS-45TDX-Z	VXRS-150/45TDX-Z
Exchanging Scales	Rockwell, Brinell, Vickers		
Configuration	Z axis rising		
Sample Rise	Automatic		
Automatic Sample Rate Rise	3mm/s		
Hardness Testing Range	HRA:20-96 HRB: 20-100 HRC: 20-70 HRD: 40-77 HRE: 70-100 HRF: 60-100 HRG: 30-94 HRH: 80-100 HRK: 40-100 HRL: 50-115 HRM: 50-115 HPR: 50-115		
Testing Range of Superficial Rockwell	HR15N: 70-94; HR30N: 42-86; HR45N: 20-77; HR15T:67-93; HR30T:29-82; HR45T: 10-72		
Rockwell Initial Test Force	10kgf(98.07N)	3.0kgf(29.4N)	10kgf(98.07N), 3.0kgf(29.4N)
Rockwell Total Test Force	60kgf (588N) 100kgf (980N) 150kgf(1471N)	15kgf (147.1N) 30kgf (249.2N) 45kgf (441.3N)	60kgf (588N), 100kgf (980N) 150kgf (1471N), 15kgf (147.1N), 30kgf (249.2N), 45kgf(441.3N)
Dwell Time	0-60s		
Hardness Resolution	0.1HR		
Test Force Error	<1.0%		
Carried Standard	GB/T230.1 GB/T230.2 National Standard JJG112 Verification Regulation		
Max. Height of Sample	220mm		
The Distance of indenter to the wall	200mm		

AUTOMATIC ROCKWELL HARDNESS TESTER-XYZ AXIS

VXRS-TDXC-ZXY SERIES



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



Product Features :

- 1.) Automatic testing process, put the sample, press the "Start" button to obtain the hardness value of each sample
- 2.) Samples automatically rise (no height restrictions)
- 3.) Automatic initial test force is applied, the main test force is automatically applied
- 4.) Automatic measurement of hardness, hardness values of automatic digital display
- 5.) Touch screen interface, easy operation, multi-language versions
- 6.) Available for using after starting up, unnecessary for installing weights and Debugging
- 7.) Electric loading, closed-loop control Automatically apply the initial load and main load
- 8.) Automatic correction of high, medium and low hardness numbers

Specification :

MODEL	VXRS-150TDX-ZXY	VXRS-45TDX-ZXY	VXRS-150/45TDX-ZXY
Exchanging Scales	Rockwell, Brinell, Vickers		
Configuration	Z axis rising, X and Y axis sample table moves automatic		
Sample Rise	Automatic		
Automatic Sample Rate Rise	3mm/s		
Hardness Testing Range	HRA:20-88 HRB: 20-100 HRC: 20-70 HRD: 40-77 HRE: 70-100 HRF: 60-100 HRG: 30-94 HRH: 80-100 HRK: 40-100 HRL: 100-120 HRM: 85-115 HPR: 114-125		
Testing Range of Superficial Rockwell	HR15N: 70-94; HR30N: 42-86; HR45N: 20-77; HR15T:67-93; HR30T:29-82; HR45T: 1-72		
Rockwell Initial Test Force	10kgf(98.07N)	3.0kgf(29.4N)	10kgf(98.07N), 3.0kgf(29.4N)
Rockwell Total Test Force	60kgf (588N) 100kgf (980N) 150kgf(1471N)	15kgf (147.1N) 30kgf (249.2N) 45kgf (441.3N)	60kgf (588N), 100kgf (980N) 150kgf (1471N), 15kgf (147.1N), 30kgf (249.2N), 45kgf(441.3N)
Dwell Time	0-99s		
Hardness Resolution	0.1HR		
Test Force Error	<0.5%		
Carried Standard	BSEN 6508, ISO 6508, ASTM E18, GB/T230		
Max. Height of Sample	50mm		
The Distance of indenter to the wall	200mm		

BRINELL HARDNESS TESTER MACHINE SERIES



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**

VXB-3000B

VXB-3000BT

VXB-3000CT

VXB-3000ET



Application :

Can be used to determine un-quenched steel., Cast iron., Non-ferrous metal and the soft texture of bearing metal materials' brinell hardness value.

Specification :

MODEL	VXB-3000B	VXBS-3000BT	VXB-3000CT	VXBS-3000ET
Testing Range	8-450HBS, 8-650HBW			
Testing Force	1.839, 2.452, 7.355, 9.807, 29.42KN (187.5, 250, 750, 1000, 3000kgf)		62.5kgf, 100kgf, 125kgf, 187.5kgf, 250kgf, 500kgf, 750kgf, 1000kgf, 1500kgf, 1500kgf, 3000kgf	
Loading Mode	Weight		Motor, Closed-Loop Control	
Identation Measurement Method	20 Times readings microscope (VXB-3000B, VXB-3000CT) Diret Reading (HBS-3000BT / 3000ET)			
Data Output	Built-in printe (VXBS-3000BT/VXBS-3000ET)			
Displat Mode	/	LCD Touch Screen Display		
Duration Time	6~99S			
Max Testing Height	230mm		280mm	
Distance Between Pressing Head Center and The Wall	120mm	150mm		
Tungsten Carbide Ball Penetrator	Φ2.5, Φ5, Φ10			

AUTOMATIC TURRENT BRINELL HARDNESS TESTER

VXBS-62.5TZD

VXBS-3000TZ / VXBS-62.5TZD



EXCELLENT
PERFORMANCE



EASY
TO USE



STRONG
POWER

VXBS-3000TZ



Product Features :

Automatic turret, objectives and indenter can switch freely, testing point is positioning automatically, auto loading, auto unloading. With two objectives outer lighting, almost solve the problem which can not test when indentation is too small or too big, outer lighting make the indentation more clear and precise. Objective with digital encoder, when test D1, D2 value, LCD display show hardness value, D1 and D2 value directly.

Specification :

MODEL	VXBS-3000TZ	VXBS-62.5TF	VXBS-62.62.5TZD
Testing Range	8-650HBW		
Testing Force	62.5kgf (612.9N), 100kgf(980.7N), 125kgf(1226N), 187.5kgf(1839N), 250kgf(245.2N), 500kgf(4903N),750kgf(7355N), 1000kgf(8907N), 1500kgf(14710N), 3000kgf(29420N)	1kgf(9.8N), 2.5kgf(24.5N), 5kgf(49N), 6.25kgf(61.29N), 10kgf(98N), 15.625kgf(153.23N), 25kgf(245.2N), 30kgf(294N), 31.25kgf(306.47N), 62.5kgf(612.94)	
Max. Height of Sample	200mm	180mm	
Duration Time	1~99s		
Measuring Device Resolution	0.1um		
Dwell Time	0~60s		
Distance Between Pressing Head Center and The Wall	155mm		
Data Output	LCD Display		
Microscope	20x Digital Micrometer Eyepiece		

ELECTRONIC DIGITAL BRINELL HARDNESS TESTER WITH SOFTWARE

VXBS-3000DW



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



Product Features :

Over-position automatic protection, automatic experiment process, unmanned operation error, large LCD liquid crystal display, intelligent menu prompts, convenient operation, high-precision reading microscope measurement system. electrical integrated product with a precise mechanical structure and a microcomputer-controlled closed-loop system. feedback by a 0.5% precision pressure sensor, CPU control and can automatically compensate for the test force lost in the test.



Specification :

MODEL	VXBS-3000DW
Testing Range	8-650HBW
Testing Force	1.89, 2.452, 7.355, 9.807, 29.42KN (187.5, 250, 750, 1000, 3000KGF)
Brinell Hardness Scale	HBW2.5/62.5, HBW2.5/187.5, HBW5/125, HBW5/750, HBW10/100, HBW10/1500, HBW10/250, HBW10/500, HBW10/1000
Max. Height of Sample	230mm
Measuring Device Resolution	0.1um
Dwell Time	0~60s
Distance Between Pressing Head Center and The Wall	120mm
Dimension	700*268*842mm
Weight	210 kg
Voltage	AC220V, 50Hz

PORTABLE BRINELL HARDNESS TESTER



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**

VXBX-0.5



VXBC



Application :

VXBX-0.5 portable Brinell hardness tester is used to evaluate the Brinell hardness of ferrous metals, nonferrous metals and bearing alloys. This testing machine includes one standard Brinell hardness block and one 20 times reading microscope.

Product Features :

- 1) Small volume, convenient for carrying, easy operation
- 2) Precision conforms to GB/T 231.2, ISO 6506-2 and ASTM E10
3. Main technical parameters
 - 1) Measuring range: 100-400HBS
 - 2) Impact energy: 4.9J
- 3) Dimension: 55 x 370mm
- 4) Weight: about 3.3kg

Application :

Used to determine the Brinell hardness of ferrous, non-ferrous metals and tensile strength of steel products. especially suitable to determine the Brinell hardness of large heavy parts on the spot. Small volume, convenient for carrying, easy operation Precision conforms to JJG 411

Specification :

Measuring Range	< 450 HBS
Diameter of Steel Ball	Dia10mm
Dimensions	Dia25 x 110mm
Weight	Approx. 0.5kg

AUTOMATIC GANTRY BRINELL HARDNESS TESTER

VXBM-3000E



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



Application :

This machine is an important instrument for testing the hardness of various castings, annealed steel, normalized steel and other metal cloth. It adopts high-precision load cell and high-resolution displacement sensor to ensure accurate measurement; it has the characteristics of stable loading, low vibration, low noise, and high precision.



Specification :

MEASUREMENT PARAMETERS

Maximum Test Force (KG)	750, 1000, 3000kgf
Hardness Tester Level	0.5;
Test Force Measurement Range (kg)	32-450HBS, 32-650HBW
Test Force Measurement Accuracy	Better than $\pm 0.5\%$
Displacement Measurement Resolution	0.01;
Displacement Measurement Accuracy	Better than $\pm 0.5\%$;
Displacement Control Speed Range	0.01~500mm/min;

HOST PARAMETERS

Number of Columns	6 Columns (4 Columns, 2 Screws)
Effective Span (mm)	550 (Customized)
Max Height of Test Piece	1200mm (Customized)

MICRO VICKER HARDNESS TESTER



EXCELLENT
PERFORMANCE



EASY
TO USE



STRONG
POWER

VXV-1000

VXVS-1000

VXVS-1000T



Product Introduction :

Heat treatment, carbonization, hardening layer, surface coating, steel, nonferrous metals, small and thin parts, etc.

Manual turret digital display micro vickers hardness tester LCD screen display is adopted, and the operation interface adopts menu structure. HV or HK scale hardness can be selected on the operation panel. The tested hardness value is automatically calculated and displayed. Various hardness values can be converted to each other.

Specification :

MODEL	VXV-1000	VXVS-1000	VXVS-1000T
Display Model	Small LCD Digital Display	Big LCD Digital Display	Touch LCD Digital Display
Hardness Values	Input D1, D2	Direct Display	Direct Display
Exchange Scales	HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T		
Test Force	10gf (0.098N), 25gf (0.245N), 50gf (0.49N), 100gf (0.98N), 200gf (1.96N), 300gf (2.94N), 500gf (4.9N), 1kgf (9.8N)		
Turret Type	Manual		
Loading and Unloading Mode	Automatic		
Dwell Time	Adjustable 0 to 60 seconds		
Micrometer Eyepiece Multiple	10X (Optional 15X)		
Measurement Resolution	0.25 μ m (Drum Reading)		
Objective Magnification	10X 40X		
Total Magnification	100X (Objective) 400X (Measurement)		
Measurement Range	150 μ m		
Light Source	Halogen Lamp (Brightness Adjustable)		
Hardness Conversation	Brinell, Rockwell, Surface Rockwell		
Max. Height of Specimen	80mm		
Depth at Center Line	95mm		
XY Test Table Size	100X100mm Max. Movement: 25*25mm		
Min. Measuring Unit	0.01 μ m		
RS232 Built-in print data statistics	No	Yes	Yes

MICRO VICKER HARDNESS TESTER



EXCELLENT
PERFORMANCE



EASY
TO USE



STRONG
POWER

VXVS-1000TH

VXVS-1000THZ



Main Function & Features

This product adopts a unique and precise design on machinery, optics and light source to make the indentation imaging clearer and the measurement more accurate. It adopts a new color 7-inch touch screen display; The tested hardness value is automatically calculated and automatically displayed. Various hardness values can be converted mutually. LCD display readout, built-in printer and RS-232 interface

Specification :

MODEL	VXV-1000TH	VXVS-1000THZ
Display Model	7-Inch Touch Screen Display	
Hardness Values	Direct Display	
Exchange Scales	HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T	
Test Force	10gf (0.098N), 25gf (0.245N), 50gf (0.49N), 100gf (0.98N), 200gf (1.96N), 300gf (2.94N), 500gf (4.9N), 1kgf (9.8N)	
Turret Type	Manual	Automatic
Loading and Unloading Mode	Automatic	
Dwell Time	Adjustable 0 to 60 seconds	
Micrometer Eyepiece Multiple	10X (Optional 15X)	
Measurement Resolution	0.25 μ m (Drum Reading)	
Objective Magnification	10X 40X	
Total Magnification	100X (Objective) 400X (Measurement)	
Measurement Range	150 μ m	
Light Source	Halogen Lamp (Brightness Adjustable)	
Hardness Conversation	Brinell, Rockwell, Surface Rockwell	
Max. Height of Specimen	110mm	
Depth at Center Line	110mm	
XY Test Table Size	100X100mm Max. Movement: 25*25mm	

AUTO-TURRET MICRO VICKER HARDNESS TESTER



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**

VXV-1000Z

VXVS-1000Z

VXVS-1000ZT



Product Introduction :

Heat treatment, carbonization, hardening layer, surface coating, steel, nonferrous metals, small and thin parts, etc.

Manual turret digital display micro vickers hardness tester LCD screen display is adopted, and the operation interface adopts menu structure. HV or HK scale hardness can be selected on the operation panel. The tested hardness value is automatically calculated and displayed. Various hardness values can be converted to each other.

Specification :

MODEL	VXV-1000Z	VXVS-1000Z	VXVS-1000ZT
Display Model	Small LCD Digital Display	Big LCD Digital Display	Touch LCD Digital Display
Hardness Values	Input D1, D2	Direct Display	Direct Display
Exchange Scales	HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T		
Test Force	10gf (0.098N), 25gf (0.245N), 50gf (0.49N), 100gf (0.98N), 200gf (1.96N), 300gf (2.94N), 500gf (4.9N), 1kgf (9.8N)		
Turret Type	Automatic		
Loading and Unloading Mode	Automatic		
Dwell Time	Adjustable 0 to 60 seconds		
Micrometer Eyepiece Multiple	10X (Optional 15X)		
Measurement Resolution	0.25 μ m (Drum Reading)		
Objective Magnification	10X 40X		
Total Magnification	100X (Objective) 400X (Measurement)		
Measurement Range	150 μ m		
Light Source	Halogen Lamp (Brightness Adjustable)		
Hardness Conversation	Brinell, Rockwell, Surface Rockwell		
Max. Height of Specimen	80mm		
Depth at Center Line	95mm		
XY Test Table Size	100X100mm Max. Movement: 25*25mm		
Min. Measuring Unit	0.01 μ m		
RS232 Built-in print data statistics	No	Yes	Yes

VICKER HARDNESS TESTER



EXCELLENT
PERFORMANCE



EASY
TO USE



STRONG
POWER

VXV/VXVS/VXVS-5,10,30,50



Application :

Heat treatment, carbide, quench hardened layer, the surface coating layer, steel, non-ferrous metal and small and thin shape parts, etc.

Specification :

MODEL	VXV-5/10/30/50 VXV-5/10/30/50Z	VXVS-5/10/30/50 VXVS-5/10/30/50Z	VXVS-5/10/30/50T VXVS-5/10/30/50TZ	VXVS-5/10/30/50TH VXVS-5/10/30/50THZ
Display Model	Small LCD Digital Display	Big LCD Digital Display	Touch Screen	8' Touch Screen
Turret Type	Manual (VXV-5, 10,30,50/VXVS-5,10,30,50/VXVS-5,10,30,50T/VXVS-5,10,30,50TH) Automatic (VXV-5,10,30,50Z/VXVS-5,10,30,50Z/VXVS-5,10,30,50TZ/VXVS-5,10,30,50THZ)			
Test Force	5/5Z/5ZTH	10/10Z/10ZTH	30/30Z/30ZTH	50/50Z/50ZTH
				1.0 Kgf(9.8N)
				2.0 Kgf(19.6N)
			1.0 Kgf(9.8N)	2.5 Kgf(24.5N)
	0.3 Kgf(2.91N)	0.3 Kgf(2.91N)	2.0 Kgf(19.6)	3.0 Kgf(29.4N)
	0.5 Kgf(4.9N)	0.5 Kgf(4.9N)	2.5 Kgf(24,5N)	5.0 Kgf(49.0N)
	1 Kgf(9.8N)	1 Kgf(9.8N)	3.0 Kgf(29.4N)	10.0 Kgf(98.0N)
	2 Kgf(19.6N)	2 Kgf(19.6N)	5.0 Kgf(49.0N)	20.0 Kgf(196N)

MV-TEST VICKER HARDNESS MEASURING SYSTEM



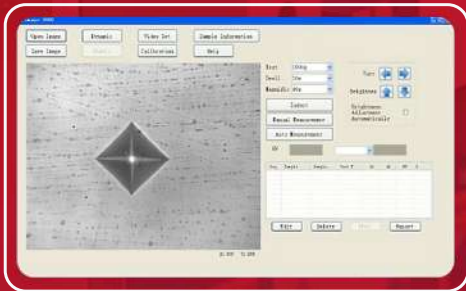
**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



Application :

1. This system can match a variety of Vickers hardness tester to upgrade stand-alone hardness tester or computer measuring system.
2. This measuring system can be integrated with the hardness tester HVS SERIES, computer-controlled for auto turret and brightness adjustment etc.
3. Suitable for micro and Vickers hardness tester, the maximum test force can be 1, 5, 10, 30, 50Kg.
4. Image with high resolution and indentation measurement by auto or manual;
5. Digital X-axis value, and automatically enter the program automatically generates the deep layer of hardness distribution curve (option);
6. Calibration using micrometer or hardness block, can be calibrated automatically;
7. Hardness converted to other hardness scales according to ASTM standard.
8. Statistics for hardness values and alarm for hardness values out of range;
9. Easy to install, use laptops instead of desktop computers;
10. Interface is simple and easy to use without training;
11. Test reports can be customized; all testing data can be saved for long time and easy for historical inquiry.

UNIVERSAL HARDNESS TESTER

VXBRV SERIES



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



Application :

Suitable to determine the Brinell, Rockwell and Vickers hardness of ferrous, non-ferrous metal and hard alloy.

Specification :

MODEL		VXBRV-187.5D	VXBRV-187.5STF	VXBRV-187.5STE
Hardness Read		Dial Shows	Touchable LCD Display, Built-in	
Control		Weight Load	Weight Load	Electric Load Close-Loop Control
Total Test Force	Rockwell	588, 980, 1471N (60, 100, 150Kgf)		
	Brinell	153.2, 306.5, 612.9, 1226, 1839N, 2415.8N (15.625, 31.25, 62.5, 125, 187.5, 250Kgf)		
	Vickers	49.03, 98.07, 196.1, 294.2, 490.3, 980.7N, (5, 10, 20, 30, 50, 100Kgf)		
Scale	Rockwell	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV		
	Brinell	HBW2.5/15.625, HBW2.5/31.25, HBW2.5/62.5, HBW5/125, HBW2.5/187.5, HBW5/250		
	Vickers	HV5, HV10, HV20, HV30, HV50, HV100		
Hardness Test Range	Rockwell	20-90HRA, 20-100HRB, 20-70HRA		
	Brinell	5-650HBW		
	Vickers	5-3000HV		
Head – Wall Distance	Rockwell	200mm	180mm	
	Brinell, Vickers	160mm	165mm	
Lens Magnification		100X, 50X, 25X		
Power Supply		AC220V/50Hz		

PORTABLE LEEB HARDNESS TESTER



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**

VXST-5200

VXST-5100

VXST-5300

Application :

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



Specification :

MODEL	VXST5100	VXST5200	VXST5300
Measuring Range	(170-960)HLD, (17-68.5)HRC,(19-651)HB,(80-976)HV, (30-100)HS,(59-85)HRA,(13-100)HRB		
Measuring Direction	360°		
Accuracy	+/- 4 HLD		
Hardness Scale	HL, HB, HRB, HRC, HRA, HV, HS		
Display	Segment LCD	Segment LCD	5 Touch LCD
Data Memory	Max 500 Groups. (Relative to Impact Times 32~1)		
Communication Interface	RS232	RS232	RS232
Communication Interface	USB2.0	USB2.0	USB2.0
Printer	Include	Include	Include

PORTABLE LEEB HARDNESS TESTER



EXCELLENT
PERFORMANCE



EASY
TO USE



STRONG
POWER

VXST-5400



Application :

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

Error and Repeatability of Displayed Value

NO	TYPE OF IMPACT DEVICE	HARDNESS VALUE OF HARDNESS BLOCK	ERROR OF DISPLAYED VALUE	REPEATABILITY
1	D	760 \pm 30 HLD 530 \pm 40 HLD	\pm 6 HLD \pm 10 HLD	6 HLD 10 HLD
2	D	50 \pm 5 HLD 30 \pm 6 HLD	\pm 1 HRC \pm 2 HRC	1 HRC 2 HRC
3	D	700 \pm 30 HLD 500 \pm 40 HLD	\pm 5 HB \pm 8 HB	5 HB 8 HB



Specification :

MODEL	VXST-5400
Measuring Range	(170-960)HLD, (17-68.5)HRC, (19-651)HB, (80-976)HV, (30-100)HS, (59-85)HRA, (13-100)HRB
Measuring Direction	360° (↓↖↗↘↙↘↗↖↙)
Hardness Scale	HL, GB, HRC, HRA, HV, HS
Outline Dimension	125*71*27mm
Display	Dot Matrix LCD, 128x64 dots
Data Memory	Max. 500 Groups (Relative to impact times 32~1)
Working Voltage	3V (2 AA Size Alkaline Battery)
Continuous Working Period	About 200 Hours (With Backlight Off)
Communication Interface	USB2.0

OPTIONAL CONFIGURATION FOR PORTABLE HARDNESS



Type of Impact Device	VXDC(D) / DL	VXD+15	VXC	VVG	VXE
Impacting Energy	11mJ	11mJ	2.7mJ	90mJ	11mJ
Mass of Impact Body	5.5g/7.2g	7.8g	3.0g	20.0g	5.5g
Test Tip Hardness	1600HV	1600HV	1600HV	1600HV	5000HV
Dia. Test Rip	3mm	3mm	3mm	5mm	3mm
Material of Test Rip	Tungsten Carbide	Tungsten Carbide	Tungsten Carbide	Tungsten Carbide	Synthetic Diamond
Impact Device	20mm	20mm	20mm	30mm	20mm
Diameter Impact Device	86(147)/75mm	162mm	141mm	254mm	155mm
Length Impact Device Weight	50g	80g	75g	250g	80g
Max. Hardness of Sample	940HV	940HV	1000HV	650HB	1200HV
Mean Roughness Value of Sample Surface Ra	1.6µm	1.6µm	0.4µm	6.3µm	1.6µm
Min. Weight of Sample Measure Directly (need support)	>5kg 2~5kg	>5kg 2~5kg	>1.5kg 0.5~1.5kg	>15kg 5~15kg	>5kg 2~5kg
Need Coupling Tightly	0.05~2kg	0.05~2kg	0.02~0.5kg	0.5~5kg	0.05~2kg
Min. Thickness of Sample Coupling Tightly	5mm	5mm	1mm	10mm	5mm
Min. Layer Thickness for Surface Hardening	≥0.8mm	≥0.8mm	≥0.2mm	≥1.2mm	≥0.8mm



Specification :

Size of Tip Identification		VXDC(D)/DL	VXD+15	VXC	VXG	VXE
Hardness 300HV	Indentation Diameter Depth of Indentation	0.54mm 24µm	0.54mm 24µm	0.38mm 12µm	1.03mm 53µm	0.54mm 24µm
Hardness 600HV	Indentation Diameter Depth of Indentation	0.54mm 17µm	0.54mm 17µm	0.32mm 8µm	0.90mm 41µm	0.54mm 17µm
Hardness 800HV	Indentation Diameter Depth of Indentation	0.35mm 10µm	0.35mm 10µm	0.35mm 7µm	- -	0.35mm 10µm
Application	DC Type used to measuring hole or inside face of cylinder, DL type used to measuring elongated narrow slot or hole, D type for routine measurements.		Suitable for measuring surface of the trench or concave.	Suitable for measuring thin workpiece and harden surface.	Suitable for Heavy or rough Castings and Forgings	Suitable High Hardness Material
		Various Type of Standard Testing Block			Connecting Cable	

PEN TYPE LEEB HARDNESS TESTER



EXCELLENT
PERFORMANCE



EASY
TO USE



STRONG
POWER



Application :

This series leeb hardness testers are the portable hardness testing instruments, which integrated the smartest NDT technology and the smallest dimension. The hardness tester is a revolutionary product that can test most of the metal objects. With the pen type design and innovative D/DL impacting probes, the HL series products provide convenient and reliable experience of testing. With its small size, impressive design, competitive price, convenient using experience, The Leeb hardness tester can wildly be used in various situations.



Specification :

Testing Direction	Highly Accurate in any Impact Direction
Testing Range	(170-960)HLD, (17.9-69.5)HRC, (19-683)HB, (80-1042)HV, (30.6-102.6)HS, (59.1-88)HRA, (13.5-101.7)HRB
Hardness Standards	HL,HV,HRA,HRC,HRB,HB,HV,HS
Accuracy	HLD: $\pm 0.5\%$ (800HLD)
Repeatability Value	HLD: 0.8% (800HLD)
Resolution	128*64 OLED Display
Dimensions	148mm*30mm*30mm
Power Supply	Rechargeable Lithium Battery
Working Hours	About 10 Hours
Operation Temperature	10-50 °C
Storage Temperature	-30 °C - +60 °C

WEBSTER ALUMINIUM ALLOY METAL HARDNESS TESTER



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



VXW-20

VXW-B75/B

VXWS-20

Application :

Used to ascertain if the work piece has been heat-treated and check the effect of heat treatment. Used to ascertain if the work piece is made and processed by improper alloys.
Used for testing the work pieces with overlength, overweight or assemblies.
Used for production inspection, acceptance inspection and quality monitoring and inspection Webster Aluminium Alloy Tester is a portable instrument which can perform on-site hardness testing



Specification :

NO	Type	Material	Hardness Test Range	Sample Size (mm)
1	VXW-20	Alumunium Alloy	25~110 HRE 58~131 HV	Thickness 0.6-6 Inner Diameter <10
2	VXW-20a			Thickness 0.6-13 Inner Diameter <10
3	VXW-20b			Thickness 0.6-8 Inner Diameter >6
4	VXW-B75	Hard or Semi-hard Brass, Super Hard Alumunium Alloy	63~105 HRF	Thickness 0.6-6 Inner Diameter >10
5	VXW-B75b			Thickness 0.6-8 Inner Diameter >6
6	VXW-BB75	Soft Brass, Red Copper	18~100 HRE	Thickness 0.6-6 Inner Diameter >10
7	VXW-BB75b			Thickness 0.6-8 Inner Diameter >6
8	VXW-B92	Cold Rolled Steel, Stainless Steel	50~92 HRB	Thickness 0.6-8 Inner Diameter >10

BARCOL HARDNESS TESTER

VX934 SERIES



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



Application :

The Barcol hardness tester is an indentation type hardness tester. It is fast, simple, and easy to test. It can be used to quickly test the hardness of aluminum and aluminum alloy materials and meet the American standard ASTM B648 . The Barcol hardness tester is mainly used to test the hardness of aluminum and aluminum alloys. It can also test the hardness of other soft metals and glass steel products. Can test a variety of oversized, ultra-wide, ultra-thick workpieces and assemblies, testing plates, strips, profiles, forgings, castings and so on.

MODEL	VX-934-1	VX-934-1S
Range	0~100HBa	
Effective Measurement Range	Equivalent to 25~135 HBW	
Resolution	0.5HBa	0.1HBa
Indication Error	42-52 HBa ±2.5 HBa 84-88 HBa ±1.0 HBa	
Repeatability Error	42-52 HBa ±2.5 HBa 84-88 HBa ±1.5 HBa	

SURFACE ROUGHNESS TESTER

VXST-300 / VXST-310



EXCELLENT
PERFORMANCE



EASY
TO USE



STRONG
POWER



Product Features

1. Automatic shutdown function and low power design of software and hardware of the instrument with long working hours, suitable for field use.
2. The surface roughness of metal and non-metallic.
3. Pocket-size & economically price
4. Large measuring range suitable for most materials
5. Optimized electric circuit design with transducer structure-design, high integrate power.
6. It could test ex-circle, flat surface, conical surface and also test groove larger than 80*30mm.



Specification :

MODEL	VXST-300	VXST-310
Testing Parameters	Ra, Rz	Ra, Rz, Rq, Rt
Measuring Range (μm)	Ra: 0.05-15.0 Rz: 0.1-50.0	Ra, Rq : 0.05-15.0 Rz, Rt : 0.1-50.0
Sample Length (mm)	0.25, 0.80, 2.50	
Evaluation Length (mm)	1.25, 4.0, 5.0	
Stroke Length (mm)	6	
Indication Accuracy	0.01	
Indication Error	±(7-10)%	
Variability	<12%	
Power	Rechargeable li-battery	
Stylus Static Force	≤ 0.016N	
Force Measuring	≤ 800N/m	
Working Temperature	-20 °C ~ 40 °C	
Relative Humidity	<90%	
Weight of Host	200g	
Size	106mm x 70mm x 24mm	

SURFACE ROUGHNESS TESTER

VXST-320



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



Product Features

1. Electromechanical integration design, small volume, light weight, easy to use
2. Using DSP chip to control and data processing, high speed, low power consumption
3. 128*64 OLED dot matrix display, digital/graphic display, highlight no perspective
4. Intuitive and rich display information, can display all the parameters and graphics
5. Measurement information display, menu prompt information, false information and switch machine and other tips that information
6. Can be connected to a computer and printer
7. Compatible with ISO, DIN, ANSI, JIS national standards
8. Residual quantity icon, prompting the user to charge
9. Continuous working time: more than 20 hours.
10. Real-time clock settings and display, convenient data recording and storage
11. With automatic dormancy, automatic shutdown and power saving function
12. Reliable control motor to go dead circuit and software design
13. Optional different sensor, measuring platform, mini printer, extension rod and other accessories
14. Plastic shell, inspired by TRANSFORMERS stylish design, portable, high reliability



Specification :

MODEL	VXST-320
Testing Parameters	Ra, Rz, Rq, Rt, Rp, Rv, R3z, R3y, RzJIS, Rsk, Rku, Rsm, Rmr
Measuring Range (um)	Ra: 0.005-16.000 ; Rz: 0.02-160.00
Sample Length (mm)	0.25, 0.80, 2.50
Evaluation	(1-5) L
Maximum Drive	17.5mm/0.7inch
Indication Accuracy	0.001
Indication Error	±(7-10)%
Variability	<6%
Data Storage	100 Groups
Power	Rechargeable li-battery
Working Temperature	-20 °C ~ 40 °C
Relative Humidity	<90%
Size	158mm x 63.5mm x 46mm

ULTRASONIC FLAW DETECTOR



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



Product Features

- 1.) Automated display precise flaw location (Depth d, level p, distance s, amplitude, sz dB, q)
- 2.) Unlimited of video time
- 3.) Automated to switch three staff gauge ((Depth d, level p, distance s)
- 4.) Automated calibration of transducer Zero-point, Angles, Front edge and material Velocity
- 5.) Convenient to make and use DAC\TCG and AVG to evaluate the echo, the curve can be modified and compensated
- 6.) 6dB DAC functions
- 7.) Standards of test for DAC is saved.
- 8.) 500 independence setup, any criterion can be input freely, we can work in the scene without test block
- 9.) Big memory of 1000 A graph
- 10.) Automated gain and gain scan Peak Hold and Peak Memory
- 11.) B scan
- 12.) AWS D1.1
- 13.) Automated make video of test process and play use USB flash disk, the length of video is unlimited
- 14.) Powerful pc software and reports can be export to excel
- 15.) Li battery, continue working time up to 10 hours
- 16.) The embeded software can be online updated:
- 17.) Display freeze
- 18.) Automated echo degree
- 19.) Angles and K-value
- 20.) Lock and unlock function of system parameters
- 21.) Electronic clock calendar



Specification :

Detection Range	0-9999mm	Resolution	> 40dB (5p14)
Working Frequency	0.2 MHz ~ 15 MHz	Linear Inhibition	≤ 3%
Sound Speed Range	1000m/ S ~ 9999m/ S	Vertical Linear Error	≤ 3%
Gain Ragne	0dB ~ 110dB	Horizontal Linear Error	≤ 0.1%
Sampling Frequency	100MHz	Dynamic Range	≥ 32dB
Display Delay	- 20 μ s to + 3400 μ s	Battery	6 x 3.7V (Lithium Battery)
Probe Bias	0 μ s ~ 99.99 μ s	Power Supply	8.4v
Electric Noise Level	≤ 10%	Ambient Temperature	- 20°C ~ 50°C
Sensitivity Margin	> 62dB	Ambient Humidity	20% - 90% RH

MAGNETIC PARTICLE FLAW

VXSTCDX-III



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



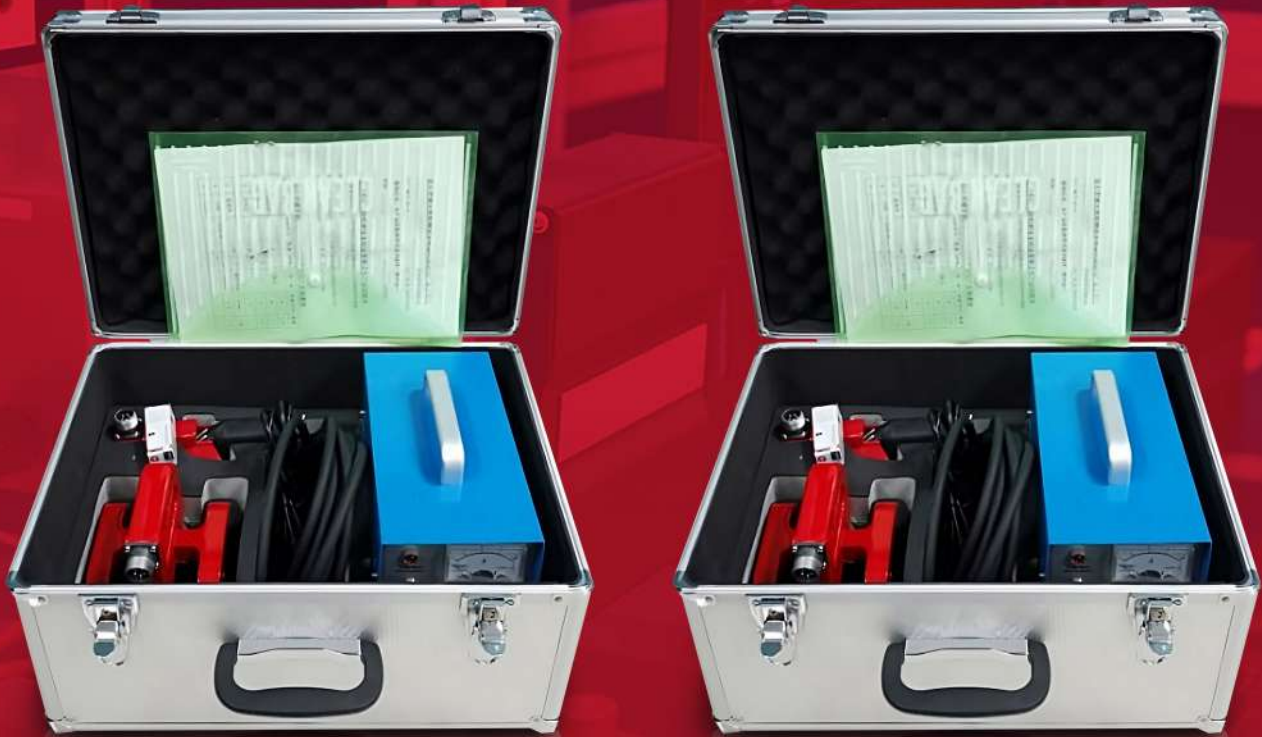
**STRONG
POWER**



Application :

It can be used in many industry like oil field, ship building, combustion motor parts, coal mine, machinery, standard parts, oil pump, aerospace parts, car parts, bridge building, chemical industry, pressure container and rail industry and so on. This model can measure the surface flaw and welding joint on irregular shape parts like chain bar, crank shaft, bearings, bolt, spring, forging piece, valve.

Power Source	AC A220V $\pm 10\%$ 50Hz 5A
Output	AC 36V 10A Probes of A.D.E.O can be selected for fitting
Fault Detection Speed	≥ 6 m/m
Temperature Rise of Probe	$\leq 60^\circ\text{C}$
Operating Beat	It is suggested that in continuous long-time operation magnetization time $\leq 3\text{s}$ and off time $\geq 5\text{s}$
Weight of The Detector	6.6 Kg



Probe Parameters :

Type D Probe

also called electromagnetic yoke probe with various turning joints and great magnetization strength. Polar distance: 60-220mm; lifting power: AC \geq 7kg, DC=18kg; weight: 1.6kg. The equipment made by using this probe independently is named electromagnetic yoke detector and the probe is featured by high magnetic inductivity and great magnetization strength.

Type A Probe

also named horseshoe magnetic yoke probe or fillet weld probe, turning joint angular magnetic head, which is fitted with a working lamp and is especially suitable for fault detection of work pieces with abnormal face and complicated shape. Polar distance: 20-160mm; lifting power: AC \geq 5kg, DC=18kg; weight: 1kg. The equipment made by using this probe is referred to as horseshoe magnetic yoke detector or fillet weld detector. The probe finds wide application as it uses the turning joint.

Type O Probe

also called ring probe with an internal diameter of 15mm and center field \geq 180 Oe. Weight: 3kg. The equipment made by using this probe independently is named ring fault detector. It is designed on the principle of forming a strong magnetic field by energizing a coil and is suitable for sectional fault detection or demagnetization of complicated work pieces including axles, bars, pipes and vanes.

Type E Probe

also called cross magnetic yoke probe or rotating-field probe and can conduct omnibearing combination magnetization flaw detection at a time. The running roller and working lamp can increase the fault detection speed. Polar distance: 110mm, lifting power: AC \geq 9kg and weight: 2kg. The equipment made by using this probe independently is called rotating-field fault detector, which uses two cross magnetic yokes and AC move-phase technology to produce a synthetic rotating field that varies with time for omnibearing combination magnetization of a work piece at a time. The fault detection is done quickly with high inspection quality.

MAGNETIC YOKE FLAW DETECTOR

VXSTY SERIES



EXCELLENT
PERFORMANCE



EASY
TO USE



STRONG
POWER



Application :

Magnetic Yoke Flaw Detector can make magnetization to various components of, They are applicable to oil, shipbuilding, engine parts, coal, machinery, standard parts, oil pump and nozzle, aircraft manufacturing, automobile other pieces, bridge-building, chemical industry, boiler and pressure vessel, railways and other industry products, due to forging, quenching, welding, fatigue caused by surface and near surface defects, such as chain rod, crankshaft, bearings, high strength bolts, springs, forgings, petrochemical pipe fittings, valves, blades, gears, rollers, chains and complex geometry such as weld inspection of the workpiece.



Specification :

MODEL		VXSTY-12-220	VXSTY-12	VXSTY-220
Power Supply Mode		AC-DC	DC	AC
Power Supply		220V50Hz—12V	—12V	220V50Hz
Charging Power		220V 50Hz	220V 50Hz	-
Battery		MF 12—7.2H	MF 12—7.2H	-
Working Current		AC1.4A/DC1.7A	DC1.7A	AC1.4A
Charging Time		8-15h	8-15h	-
Working Hours		Over 6 Hours	Over 6 Hours	-
Working Time Gap		One Second		
Magnetization Pole Distance		50-200mm	50-200mm	50-200mm
Elevating Force	A C	>5.5 Kg	-	>5.5Kg
	D C	>25 Kg	>25 Kg	-
Weight	Yoke	3.2 Kg	3.2 Kg	3.2 Kg
	Battery	2.9 Kg	2.9 Kg	-
Dimension (mm)	Yoke	208x52x146	208x52x146	208x52x146
	Battery	160x100x70	160x100x70	-
	Charger	80x60x40	80x60x40	-

ULTRASONIC THICKNESS GAUGES

VXST-2430



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



Application :

Magnetic Yoke Flaw Detector can make magnetization to various components of, They are applicable to oil, shipbuilding, engine parts, coal, machinery, standard parts, oil pump and nozzle, aircraft manufacturing, automobile other pieces, bridge-building, chemical industry, boiler and pressure vessel, railways and other industry products, due to forging, quenching, welding, fatigue caused by surface and near surface defects, such as chain rod, crankshaft, bearings, high strength bolts, springs, forgings, petrochemical pipe fittings, valves, blades, gears, rollers, chains and complex geometry such as weld inspection of the workpiece.

Product Features :

- 1.) Measurements on a wide range of material, including metals, plastic, ceramics, composites, epoxies, glass and other ultrasonic wave well-conductive materials.
- 2.) Collocate variety different frequencies, wafer sizes of probes
- 3.) Sound Velocity Calibration function as a known thickness
- 4.) Coupling status indicator showing the coupling status
- 5.) EL backlight, and convenience to use under dark environment
- 6.) Have the battery indicator function, can real-time display the remaining power
- 7.) Auto sleep and auto power off function to conserve battery life
- 8.) Smart, portable, high reliability, suitable for bad environment, resist to vibration, shock and electromagnetic interference.



Specification :

MODEL	VXST-2430
Display	128*64 LCD with LED Backlight
Measuring Range	(0.75~700)mm(Steel)/(0.03Inch-27.6inch)
Velocity Range	(1000~9999) m/s
Resolution	0.001mm
Measuring Accuracy	$\pm(0.5\%H+0.04\text{mm})$; H is thickness VALUE
Measurement Cycle	Single Point Measurement 6 times/per
Calibration Function	Zero Calibration and Two-Point Calibration
Lower Limit for Steel Pipes	5MHz Probe: 20mm*3.0mm (0.8 0.12 inch) 7MHz Probe: 15mm*2.0mm (0.6 0.8 inch)
Power Source	2pcs 1.5V AA Size

COATING ULTRASONIC THICKNESS GAUGE

VXCT-2510



**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**

Ferrous Metal

Non Ferrous Metal

**Ferrous Metal/
Non Ferrous Metal**

Ferrous Metal



CM10F



CM10N



CM10F



CM10FH



Application :

With different probe: can measure the thickness of non-magnetic coating layers covered on magnetic substrate. Such as: non-magnetic (aluminum, chrome, copper, enamel, rubber, paint) covered on magnetic substrate (steel, alloy and magnetic stainless steel) It also can measure the thickness of non-conductive coatings layers covered on conductive substrate. Such as: (enamel, rubber, paint, vanish, plastic anodic-oxide layer) covered on conductive substrate (aluminum, brass, zinc and nonmagnetic stainless steel).

Product Features :

- 1.) Various probes optional, probe auto matching.
- 2.) Durable ruby probe, more wear and precise.
- 3.) Full metal shell design, sturdy, portable, high reliability.
- 4.) Alarm function when overrun the settable limiting range.
- 5.) Five statistics values [MEAN, MAX, MIN, NO., S.DEV] higher measurement accuracy.
- 6.) Large storage, easy to delete single or multiple saved values.
- 7.) PC software optional, convenient the data transmission, analysis, printing etc.



Specification :

MODEL	VXCT-2510
Measuring Range	0-1250 μm , depends on probes, MAX 10mm for the probe F10.
Working Principle	Magnetic & Eddy
Substrate	FE / NFE base
Resolution	0.1 μm
Display	128x64 LCD With Backlight
Accuracy	$\pm 2\%H + 1\mu\text{m}$ Note : H is thickness reading
Memory	5 Files x 100 Values
Unit Switch	Metric (μm) Imperial (mil)
Working Temperature	Operation Temp. : -10~50°C Storage Temp. : -30~70°C
Power	AA Battery 2pcs
Weight	340g
Size	115*67*31mm

COATING ULTRASONIC THICKNESS GAUGE

VXST-2610



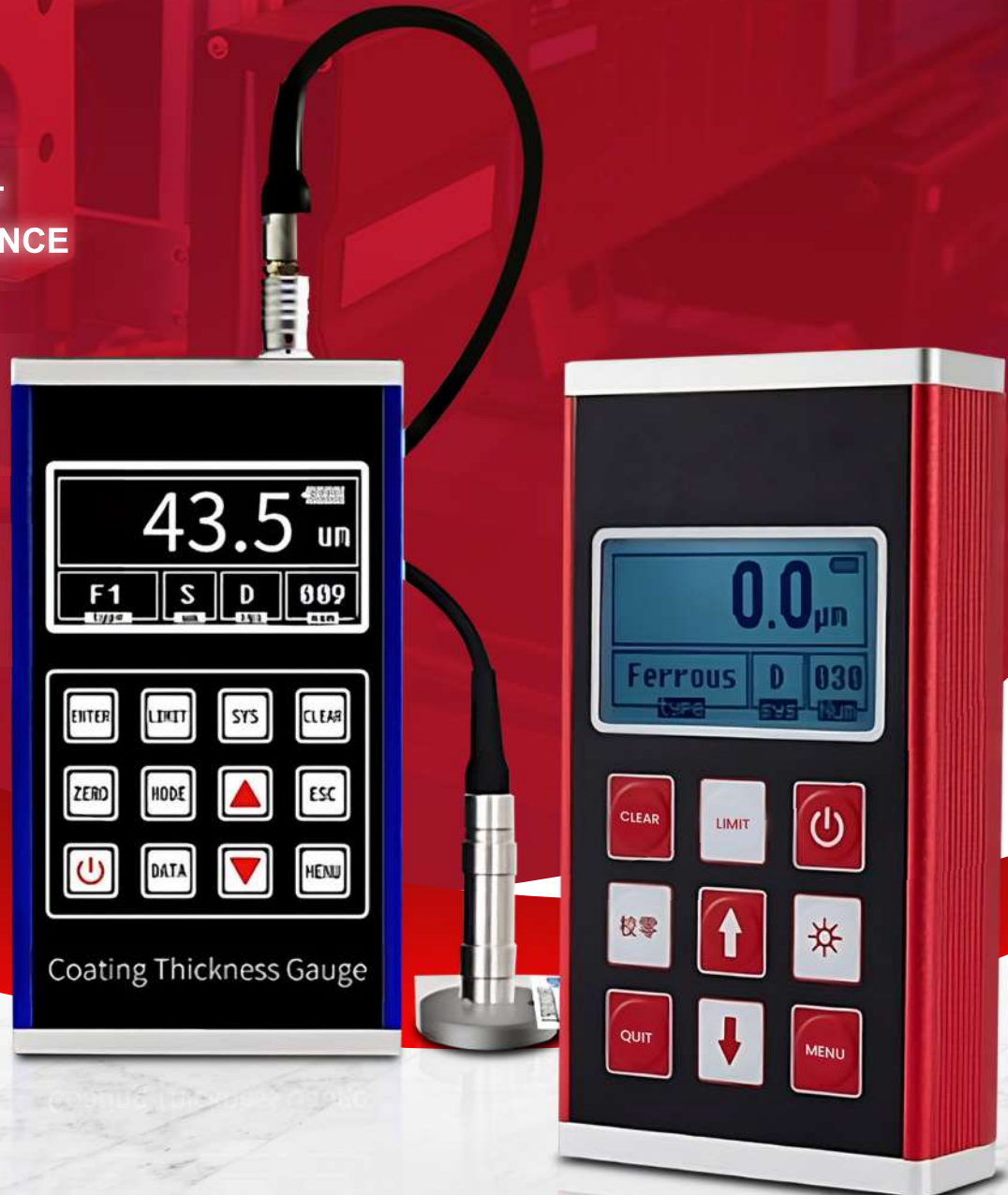
**EXCELLENT
PERFORMANCE**



**EASY
TO USE**



**STRONG
POWER**



Application :

can measure the thickness of non-magnetic coating layers covered on magnetic substrate. Such as: non-magnetic (aluminum, chrome, copper, enamel, rubber, paint) covered on magnetic substrate (steel, alloy and magnetic stainless steel) It also can measure the thickness of non-conductive coatings layers covered on conductive substrate. Such as: (enamel, rubber, paint, vanish, plastic anodic-oxide layer) covered on conductive substrate (aluminum, brass, zinc and nonmagnetic stainless steel).

Remarks :

With different probe: KY100 can measure the thickness of non-magnetic coating layers covered on magnetic substrate. Such as: non-magnetic (aluminum, chrome, copper, enamel, rubber, paint) covered on magnetic substrate (steel, alloy and magnetic stainless steel) It also can measure the thickness of non-conductive coatings layers covered on conductive substrate. Such as: (enamel, rubber, paint, vanish, plastic anodic-oxide layer) covered on conductive substrate (aluminum, brass, zinc and nonmagnetic stainless steel).



Specification :

MODEL	VXCT-2610
Range	0-1250 μm, depends on probes, MAX 10mm for the probe F10.
Resolution	0.1 μm
Display	128x64 LCD With Backlight
Accuracy	±2%H+1um Note : H is thickness reading
Weight	340g
Size	115*67*31mm



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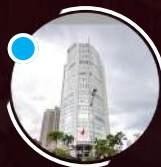


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