



TIME Testing Machines

ISO9001 International Quality Certificate

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1~5Kn Electronic Universal Testing Machine

WDW-E Series adopts the most advanced and reliable ball screw electric mechanical load frame structure. The driving system adopts AC servo timing system and motor from Panasonic Co.Ltd.of Japan. The PC controlling system is able to realize the close-loop control of the parameters such as loading force, specimen deformation, and crosshead stroke etc. The system realizes the screen display, online diagram drawing, testing curve changing, pile curve collation and auto analysis of test results, creation of test report. Especially, the application of the control mode can be manual control or computer programming control which makes the cyclic tests become available. By switching simply of different accessories, WDW series Universal testing machine can make tests on most of materials and components to suit your needs.



Standards:

ISO 7500-1, ASTM E4, EN10002-2, BS 1610, DIN 51221, ISO6892.

Specifications	WDW-5E
Accuracy	±0.5%
Max. capacity (KN)	5
Measuring range	2%-100% of FS
Load accuracy	≤±0.5% of indicated value
Resolution of load	1/200000 of max. test load
Resolution of displacement(mm)	0.001
Control speed(mm/min)	0.005-500, stepless
Relative error of moving speed	≤±1%
Resolution of moving speed control	<±1%mm/min: ≤±1%
Gauge of standard extensometer(mm)	50
Max. deformation measuring(mm)	10
Deformation measuring range(mm)	2%-100% of max. deformation
Relative error of deformation reading	≤±1%
Accuracy of deformation measuring	≤±0.5% (within 2%-100% of max. extensometer range)
Long travel extensometer measuring range (mm)	10~800 (Need to be ordered separately)
Accuracy of long travel extensometer value	≤±0.5%
Total travel of middle crosshead(mm)	850
Max. distance from working platform to bottom side of middle Crosshead (mm)	950
Width of test space(mm)	400
Resolution of ball screw	16µm/300mm E5 Class
Load frame dimensions(mm)	610×480×1274 (L x W x H)
Load frame net weight(Kg)	100
Load frame power	220v, 50hz, 400w
Working condition	Ambient temperature: 10℃~35℃ Humidity:20%-80%

Charpy Impact Testing Machine

XJJ series Charpy Pendulum Impact testing machine is used to test or determine the anti-impact capacity of non-metal materials, such as hard plastic, enhanced nylon, ceramic, toughened glass and dielectric etc. It was adopted by scientific research institutes, colleges, universities and many non-metallic materials manufactures and laboratories.

This machine is developed according to the standard of ISO180. Also, it has advantages of simple in structure, easy to operate and high accuracy.

Specification	XJJ-5	XJJ-50
Impact velocity	2.9m/s	3.8 m/s
Pendulum energy	1J 2J 4J 5J	7.5J 15J 25J 50J
Rising angle	150°	160°
Distance between centers of Pendulum and specimen	230mm	380mm
Pendulum moment	1J PL=0.53590Nm	7.5J PL=3.866Nm
	2J PL=1.07180Nm	15J PL=7.733Nm
	4J PL=2.14359Nm	25J PL=12.889Nm
	5J PL=2.67949Nm	50J PL=25.777Nm
Dial's scale	0-1J minimum scale: 0.01J	0-7.5J minimum scale: 0.075J
	0-2J minimum scale: 0.02J	0-15J minimum scale: 0.15J
	0-4J minimum scale: 0.04J	0-25J minimum scale: 0.25J
	0-5J minimum scale: 0.05J	0-50J minimum scale: 0.5J
Corner dimension of Striking edge	30 degree	30 degree
Round angle radius of striking edge	R=2mm	R=2mm
Specimen	Conform to ISO 180	Conform to ISO 179



XJJ-5



XJJ-50

IZOD Impact Testing Machine

XJU-2.75/22 IZOD Pendulum Impact testing machine is used to test or determine the anti-impact capacity of non-metal materials, such as hard plastic, enhanced nylon, ceramic, toughened glass and dielectric etc. It was adopted by scientific research institutes, colleges, universities and many non-metallic materials' manufactures and laboratories.

This machine is developed according to the standard of ISO180-82. Also, it has advantages of simple in structure, easy to operate and high accuracy.

Specification	XJU-2.75	XJU-22
Impact velocity	3.5m/s	3.5 m/s
Pendulum energy	1J 2.75J	5.5J 11J 22J
Rising angle	160°	160°
Distance between striking edge to upper surface of clamps	22mm	22mm
Pendulum moment	1J PL=0.5155Nm	5.5J PL=2.8355Nm
	2.75J PL=1.4177Nm	11J PL=5.671Nm
		22J PL=11.3419Nm
Dial's scale	0-1J minimum scale: 0.01J	0-5.5J minimum scale: 0.005J
	0-2.75J minimum scale: 0.025J	0-11J minimum scale: 0.1J
		0-22J minimum scale: 0.2J
Impact semidiameter	0.322m	0.322m
Round angle radius of striking edge	R=0.8mm	R=0.8mm
Specimen	Conform to ISO 180	Conform to ISO 180



XJU-2.75/22 Dial Type



XJU-2.75/22 Digital Type

XJUD-50J Digital Display Charpy & IZOD Impact Testing Machine

XJUD-50 Pendulum Impact Testing Machine is an ideal instrument used to conduct impact tests on thermoplastic materials such as hard plastic, enhanced nylon, ceramic, toughened glass and dielectric etc. in order to determine their impact fragility characteristics under specify stress conditions. It is widely adopted by scientific research institutes, colleges, universities and many non-metallic materials manufactures and laboratories.



Specification	XJUD-50	
<u>Charpy Impact Test</u>		
Impact velocity	3.8 m/s	
Pendulum energy	0.5J, 1J, 2J, 4J, 5J, 7.5J, 15J, 25J, 50J	
Rising angle	150°	
Pendulum moment	Pd 0.5=0.26795Nm	Pd 7.5=3.8662Nm
	Pd 1=0.5359Nm	Pd 15=7.7324Nm
	Pd 2=1.07180Nm	Pd25=12.8888Nm
	Pd 4=2.14359Nm	Pd50=25.777Nm
	Pd 5=2.67949Nm	
Span of anvil supporters	40mm、60mm、70mm、95mm	
Corner dimension of Striking edge	30 degree	
Round angle radius of striking edge	R=1mm	
Indication	Digital Display	
<u>IZOD Ompact Test</u>		
Impact velocity	3.5 m/s	
Pendulum energy	0.5J, 1J, 2.75J, 5.5J, 11J, 22J	
Rising angle	150°	
Pendulum moment	Pd 0.5=0.26795Nm	Pd 5.5=2.8355Nm
	Pd 1=0.5359Nm	Pd 11=5.6711Nm
	Pd 2.75=1.41775Nm	Pd22=11.3419Nm
Round angle radius of striking edge	R=0.8mm	
Indication	Digital Display	



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[XRW-S300 HDT&VICAT testing machine](#)

This instrument is used to determine the temperature of deflection of the thermoplastic samples HDT and VICAT. In the temperature rising velocity is $12^{\circ}\text{C}\pm 1/6\text{min}$, determine HDT and VICAT at same time is available. This instrument is conform to GB1633—2000、GB1634—2004.1、ISO75.1----2003、ISO306----1994. ASTM D1525

XRW—S300adopt advanced micro process technology to operate rising temperature PID, data display and process, micro printer is also available. It can also connected with a computer, except above mentioned function, with a computer you can also handle the test curve and test report.

Specifications	XRW-S300 / XRW-W300	
Temperature range	Room temperature to 300°C	
Heating speed	$120^{\circ}\text{C}/\text{h}$	$(12\pm 1)^{\circ}\text{C}/6\text{min}$
	$50^{\circ}\text{C}/\text{h}$	$(5\pm 0.5)^{\circ}\text{C}/6\text{min}$
Temperature accuracy	$\pm 0.5^{\circ}\text{C}$	
Deformation measuring range	Max. 2mm	
Deformation resolutions	$\pm 0.01\text{mm}$	
Test station	3	
Temperature heating medium	Methyl Silicon oil, transformer oil, glycerol	
Power supply	$220\text{V}\pm 10\%$, 20A、50Hz	
Net weight(kG)	70KG	
Gross weight(KG)	100KG	
Dimensions(mm)	800*630*1200	



XRW-W300



XRW-S300

XRL-400C Melt Flow Indexer

Melt flow index is used to determine the MFR , MVR and the Melt density of thermoplastic resin. It is not only fit for the engineering plastics with high temperature such as polycarbonate and polyarylsulfone (PAS), but also fit for the plastics with low temperature such as polyethylene, polypropylene, ABS resin and acetaldehyde resin. It is widely applied in plastics production and petrochemical, and also in some academy and commodity inspection departments.

XRL-400C Melt flow indexer confirms to GB 3682, ISO 1133, ASTM D 1238, ASTM D 3364, DIN 53735, UNI-5640, JJG878-94 etc. Standard of Melting Flow Rate Instrument, and was manufactured as per JB/T5456D.



Specifications	XRL-400C
Measuring range	0.01-600.00g/10min (MFR)
	0.01-600.00cm ³ /10min (MVR)
	0.001-9.999g/cm ³ (Melt density)
Measuring method	MVR/MFR
Temperature range	50 - 400 °C
Temperature Precise	±0.2°C
Temperature Control	Intelligent PID
Specimen Cutting	Manual / Automatic
Display	Digital display / with printer

XHR-150 Plastics Rockwell Hardness Tester

XHR-150 Plastic Rockwell Hardness Tester adopts motorized testing method. Its testing force can be loaded, kept and unloaded automatically. It is an effective electronic plastic Rockwell testing machine with high accuracy, reliability and durability.

It is applied at the workshops and measurement departments for determining the Rockwell hardness of the hard rubber and plastic.

Application:

Hard plastics, hard rubbers, aluminum, tin, copper, soft steel, synthetic resins, fricative materials, etc.



Specifications	XHR-150
Preliminary test force	98.07N (10kg)
Total test force	588.4N (60kg), 980.70N (100kg), 1471N (150kg)
Testing field	70-94 HRE, 100-120 HRL, 85-110 HRM, 114-125 HRR
Hardness Indication	Dial
Duration time	2-60s
Max height of specimen	170mm
Max. width of specimen	165mm
Machine Size (D x W x H)	520x215x700 (mm)
Net weight	78kg
Power Supply	AC220V/50HZ
Standard Accessories	
Dia. 3.175, 6.35, 12.7 mm Ball indenter, Large Testing Table, Medium Testing Table and V-Shaped Table, 4 pcs Hardness Blocks, Lever, Power Cable	

Plastic & Rubber specimen preparation machines

QK-20 Sample Preparation Machine

It is mainly used for sample preparation of plastic impact specimens.

Specification

Cutting Knife(S):

A: $45 \pm 1^\circ$ R=0.25

B: $45 \pm 1^\circ$ R=1

C: 2 ± 0.1

D: 0.8 ± 0.05

Sample:

Conform to ISO179 / ISO180

For plastic sample use



ZQK-20 Automatic Sample Preparation Machine

ZQK-20 Automatic Sample Preparation Machine is mainly used for plastic sample preparation of Charpy & IZOD impact strength test. It conforms to GB/T1043, GB/T1843, GB/T8814, ISO179, ISO180. The machine is reasonable in structure and simple to use. It is the ideal instrument for specimen notch preparation

Specification

Cutting Knife(S):

A: $45 \pm 1^\circ$ R=0.25

B: $45 \pm 1^\circ$ R=1

C: 2 ± 0.1

D: 0.8 ± 0.05

Sample:

Conform to ISO179 / ISO180

For plastic sample use



CP-25 Specimen Punching Machine

It is mainly used for specimen preparation of nonferrous materials. By adding different knives, it could make various standard specimens.

Specifications:

Max. cutting thickness: 2mm

