



ISO9001:2008 & ISO14001:2004

Since 1981 Professional Manufacturer

National High-tech Enterprise

The People's Republic of China Export and Import Enterprise

- Highway Instrument
- Geotechnical Instrument
- Building Materials Instrument

## Shanghai Civil & Road Instrument Co., Ltd.

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Shanghai Civil & Road Instrument Co., Ltd.

# Company Profile

Shanghai Civil & Road Instrument company is a Chinese manufacturer of civil engineering test equipment that is used in countless quality control processes. Our factory is professional manufacturer of computerized, digitized and intelligent testing equipments, which is located in Zhejiang province. Was established by my boss and his older brother, Our factory has great-leap-forward development in the past thirty years since established in 1981. Factory cover an area of 26,680 square meters, have 14 modernized standard workshops, be equipped with complete vehicle, gear, milling, grinding, and boring machine, have high independent research and development ability.

Economic and Trade Commission, Science and Technology Committee set their research center in our factory. We participate and enact national standard and provincial standard many times.

We have 32 kinds of products won the Licence for manufacturing measuring instrument; 48 kinds of products won National Industrial Product Manufacture Licence; 39 kinds of product won National Patent. We are the largest manufacturer of geotechnical instruments, highway instruments and building materials instruments in China.

since 1981,we have been consistently providing customers with a wide range of outstanding soil and civil engineering apparatus ,material testing machine ,cement and concrete testing machine asphalt and asphalt mixture testing machine ,general laboratory equipment, and more .over the three few decades, we have contributed to the completion of the many key national and International projects ,such as the Hangzhou Bay Bridge project ,the Cuban educational engineering project aided by the Chinese Ministry of Education and the Congo-Kinshasa highway construction project aided by China.

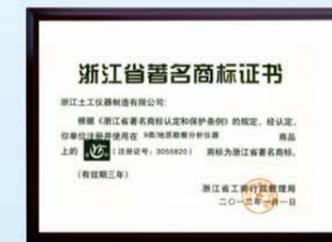
In order to provide customers with the highest quality testing machine, we manufacture our products using imported precision electronic components and advances equipment like CNC grinders ,planers, CNC machine tools, and large vertical machining centers, and we conduct rigorous inspections of finished products before delivery ,In addition, we adhere to all applicable international standards, so as to ensure our global customers' requirements are met, As a result of our efforts, our material testing machines are CE compliant ,our concrete testing machines, aggregate testers ,asphalt testing apparatus and pavement testing machines are ISO certified, and our abrasion machines ,disc type liquid limit devices and electric compactors meet the standards of ASTM ,BS and EN, Therefore ,global customers can feel secure in purchasing from us.

With decades of experience in the field, we now have a complete service system covering production, packaging, logistic, delivery, custom and clearance document like CO, CIQ, FORMA, FORM E , SONCAP, and more. We also are continually working to streamline our management and make the best use of resources. This helps reduce our costs , so we can pass savings on to customers in the form of more economical prices.

At Civil & Road Instrument, we have a team of highly experiences technicians who can not only quickly answer any technical questions but also consult with customers to help them choose the right product for their particular application. In addition, we provide English instructions , software and online video training so that operators can use our material testing machine, concrete testing machine and asphalt testing machine easily. if needed ,we also can provide on-site installation and training services. we also including some wearing parts, maintain and fix with free of charge We export products to more than 80 countries in the world such as Europe, America, Australia ,Middle east ,south Africa ,etc.

For further information, please feel free to contact us. we look forward cooperate with you.

# Company Honor



# Company Briefing



COMPANY GATE



UTM WORKSHOP



CORNER OF CTM WORKSHOP



REFRIGERATION WORKSHOP



MACHINE TOOL



WORKSHOP



CORNER OF INSTRUMENT WORKSHOP



CORNER OF WAREHOUSE



## World's longest cross-sea bridge

### Partly users' list of Hangzhou Bay Cross-sea Bridge

- 1.South and North Shore Laboratories of Headquarters (partly)
- 2.The First Engineering Company of CHEC (China Harbor Engineering Company Ltd.)
- 3.The Second Engineering Company of CHEC
- 4.The Third Engineering Company of CHEC
- 5.The Fifth and Sixth Engineering Company of MBEC (China Zhongtie Major Bridge Engineering Group Co.,Ltd.)
- 6.The Second Engineering Company of CREGC (China Railway Engineering Group Co., Ltd.)
- 7.CRBC (China Road & Bridge Corporation ) International Co., Ltd.
- 8.Guangdong Provincial Chang Da Highway Engineering Co., Ltd.
- 9.Zhejiang Provincial Transportation Engineer & Construction Group Co., Ltd.
- 10.Ningbo Communication Engineering Construction Group Co., Ltd.
- 11.Jiangsu Huaning Transportation Consulting and Management Corporation
- 12.Guangzhou Nanhua Project Management Co., Ltd.
- 13.Guangzhou Humen Supervision Co., Ltd.
- 14.Wuhan Bridge Construction Management Co., Ltd.
- 15.The Management Company of CARS (China Academy of Railway Sciences)
- 16.CCCC The Third Harbor Engineering Co., Ltd.
- 17.Ningbo Transportation Engineer & Construction Management Co., Ltd.

We provide the testing equipments to all above company.

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## WAW Microcomputer Controlled Electro-hydraulic Servo Universal Testing Machine



### Use

It is suitable for doing testing experiments such as the tensile, compression, bending and shear testing for all kinds of metal materials and nonmetal materials such as plastic, concrete, cement and so on.

The oil cylinder is set on the bottom in the machine, and with double space frames, the test space can be adjusted automatically. The control unit is composed of computer and control system, it process stress, strain and displacement control modes, the test data can be stored at will, and the data and curves can be reanalyzed, part amplified and data re-edition, test conditions (specimen, measurement) are programmable, all the mechanical properties can be obtained automatically, and print whole test report and curve.

### Standard:

It accords with the relative requirements of ISO, ASTM, JIN, GB and many other testing methods. EN10002-1, ISO 6892, ASTM E8, ASTM C39, ASTM F606, SAE J429, CE Compliant

### Feature:

These frames feature are dual spaces, so users can quickly change between tension and compression testing without having to remove heavy fixtures. Control console with integrated hydraulic power pack, precise loading regulator and unloading valves, Extra-length screws and columns, with an adjustable upper crosshead, to increase the available test space for longer test samples. Semi-open front hydraulic wedge clamps for easier loading and rapid loading and unloading of specimens.

### Accessories:

Main frame; Control console; Controller and sensor; Computer and software; Hydraulic oil pipe and control button box; Sample jaw three sets; Bend support saddle; Bend pressure energy; Spheric compression plate; Lower compression plate; Top board; Ground screw and nut; Inner hexagon spanner; Double offset ring spanner; Other accessories full sets.

## Specification:

WAW-1000B WAW-600B WAW-300B WAW-100B

Machine model		WAW-300B	WAW-600B	WAW-1000B
Technical Parameter	Max. testing power	300KN	600KN	1000KN
	Software control	PC Controlled Electro-hydraulic Servo UTM software		
	Testing power Precision	+1%		
	Testing power distance	2%-100% FS		
	Distortion testing precision	+1%/+0.5%		
	Distortion testing range	2%-100% full range of extensometer		
	Displacement measuring	0.01mm		
	Max. lift speed of testing board	70mm/min		
	Piston travel	150mm		
	Max. tension distance	620mm	640mm	700mm
Compress distance	0-380mm	0-450mm	0-470mm	
Clamp grip Parameter	Clamp diameter of round specimen	ϕ 0-32mm	ϕ 13-40mm	ϕ 20-60mm
	Clamp thickness of flat specimen	0-15mm	0-30mm	0-40mm
	Clamp width of flat specimen	80mm		
	Size of compression plate	160mmX160mm	205mmX205mm	205mmX205mm
	Bending stick distance	350mm	500mm	500mm
Main frame Parameter	Bending stick width	140mm		
	Bending degree allowance	100mm		150mm
	Main frame size	740X580X2045mm	900X630X2160mm	900X630X2250mm
	Controller size	1040x650x860mm		
Main frame Parameter	Oil pump power	1.5KW		
	Low grip motor power	0.75KW	0.75KW	1.1KW
	Distortion testing device	Electronic Extensometer		
	Overload protection	2-5%		
	Weight	1800kgs	2300kgs	3000kgs

## WAW Microcomputer Controlled Electro-hydraulic Servo Universal Testing Machine



### Use

It is suitable for doing testing experiments such as the tensile, compression, bending and shear testing for all kinds of metal materials and nonmetal materials such as plastic, concrete, cement and so on.

The oil cylinder is set on the bottom in the machine, and with double space frames, the test space can be adjusted automatically. The control unit is composed of computer and control system, it process stress, strain and displacement control modes, the test data can be stored at will, and the data and curves can be reanalyzed, part amplified and data re-edition, test conditions (specimen, measurement) are programmable, all the mechanical properties can be obtained automatically, and print whole test report and curve.

### Standard:

It accords with the relative requirements of ISO, ASTM, JIN, GB and many other testing methods. EN10002-1, ISO 6892, ASTM E8, ASTM C39, ASTM F606, SAE J429, CE Compliant

### Feature:

These frames feature are dual spaces, so users can quickly change between tension and compression testing without having to remove heavy fixtures. Control console with integrated hydraulic power pack, precise loading regulator and unloading valves, Extra-length screws and columns, with an adjustable upper crosshead, to increase the available test space for longer test samples. Semi-open front hydraulic wedge clamps for easier loading and rapid loading and unloading of specimens.

### Accessories:

Main frame; Control console; Controller and sensor; Computer and software; Hydraulic oil pipe and control button box; Sample jaw three sets; Bend support saddle; Bend pressure energy; Spheric compression plate; Lower compression plate; Top board; Ground screw and nut; Inner hexagon spanner; Double offset ring spanner; Other accessories full sets.

### Specification:

WAW-1000B WAW-600B WAW-300B WAW-100B

Machine model		WAW-300B	WAW-600B	WAW-1000B
Technical Parameter	Max. testing power	300KN	600KN	1000KN
	Software control	PC Controlled Electro-hydraulic Servo UTM software		
	Testing power Precision	+1%		
	Testing power distance	2%-100% FS		
	Distortion testing precision	+1%/+0.5%		
	Distortion testing range	2%-100% full range of extensometer		
	Displacement measuring	0.01mm		
	Max. lift speed of testing board	70mm/min		
	Piston travel	150mm		
	Max. tension distance	620mm	640mm	700mm
Compress distance	0-380mm	0-450mm	0-470mm	
Clamp grip Parameter	Clamp diameter of round specimen	ϕ 0-32mm	ϕ 13-40mm	ϕ 20-60mm
	Clamp thickness of flat specimen	0-15mm	0-30mm	0-40mm
	Clamp width of flat specimen	80mm		
	Size of compression plate	160mmX160mm	205mmX205mm	205mmX205mm
	Bending stick distance	350mm	500mm	500mm
Main frame Parameter	Bending stick width	140mm		
	Bending degree allowance	100mm		150mm
	Main frame size	740X580X2045mm	900X630X2160mm	900X630X2250mm
	Controller size	1040x650x860mm		
Main frame Parameter	Oil pump power	1.5KW		
	Low grip motor power	0.75KW	0.75KW	1.1KW
	Distortion testing device	Electronic Extensometer		
	Overload protection	2-5%		
	Weight	1800kgs	2300kgs	3000kgs

WAW Microcomputer Controlled Electro-hydraulic Servo Steel Stranded Wire Universal Testing Machine

This machine used to do tension test of steel stranded wire, it can used to perform tension, compression, bend, shear test of metal and non-metal material. Oil cylinder of machine is underneath type, can free adjust testing room, automatic hydraulic clamp system, four column of main frame structure can be adjustable. Use import high quality electronic parts and components for production. Windows platform software. It has the feature such as automatic calibrate load, distortion, automatic switch measuring range, automatic stock test condition, test result, automatic count  $F_m$ ,  $ReL$ ,  $ReH$ ,  $RP0.2$ ,  $RP0.05$ ,  $R_m$  and elastic modulus  $E$  et.. It has the function of dynamic display test data and curve when test, data edition, browse test curve, magnification, superposition, comparison et., can print complete test report and test curve.

Max. testing power: 2000KN, 1000KN, 600KN  
 Testing range: 0-1000KN, 0-600KN  
 Error: <+11%  
 Max. tension distance: 1000mm  
 Piston distance: 250mm  
 Working voltage: AC380V  
 Power of oil pump motor: 2.0KW, 1.5KW



Specification:

WAW-2000B WAW-1000B WAW-600B



Equip special steel stranded wire extensometer, its precision is high, precision is +0.5%, scale distance is 500mm, measuring range is 0-50mm



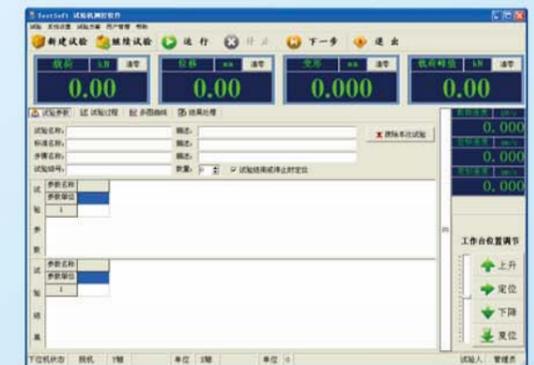
Equip with special long type clamp, automatic clamp well by hydraulic system, break point is in the center of specimen not in the end.

Features:

1. 4 upright posts, hard chromeplated, easy installation of hydraulic jaw, tension fracture position in the middle of specimen.
2. With high quality parts, imported motor, thick steel column, plates and beam
3. Noncorrosion column and screw poles to ensure long time application
4. Steady working



Test method program



System main interface

## WE Analogue Display Hydraulic Universal Testing Machine



### Use:

The machine has the oil cylinder of underneath type and of hydraulic loading control, pendulum test, and three-dimensional gamut. It has the advantage such as high precision and easy to operate. It is suitable for doing testing experiments such as the tensile, compression, bending and shear testing for all kinds of metal materials and nonmetal materials such as plastic, concrete, cement and so on.

### Accessories:

Main frame; Control console; Analogue gauge; Sample jaw three sets; Bend support saddle; Bend pressure energy; Spheric compression plate; Lower compression plate; Top board; Ground screw and nut; Inner hexagon spanner; wire power cord; O type gasket; Cruciform screw driver; Double offset ring spanner; Other accessories full sets.

### Specification:

WE-1000B WE-600B WE-300B WE-100B

Machine model		WE-300B	WE-600B	WE-1000B
Technical Parameter	Max. testing power	300KN	600KN	1000KN
	Testing power Precision	Two grade		
	Max. lift speed of testing board	70mm/min		
	Max. tension distance	620mm	640mm	700mm
Clamp grip Parameter	Compress distance	0-380mm	0-450mm	0-470mm
	Clamp diameter of round specimen	φ 0-32mm	φ 13-40mm	φ 20-60mm
	Clamp thickness of flat specimen	0-15mm	0-30mm	0-40mm
	Clamp width of flat specimen	80mm		
	Size of compression plate	160mmX160mm	205mmX205mm	205mmX205mm
	Bending stick distance	350mm	500mm	500mm
	Bending stick width	140mm		
	Bending degree allowance	100mm		150mm
Main frame Parameter	Main frame size	740X580X2045mm	890X580X2150mm	900X630X2150mm
	Controller size	650x640x1800mm		
	Oil pump power	1.5KW		
	Distortion testing device	Staff		
	Overload protection	2-5%		
	Weight	1800kgs	2300kgs	3000kgs

## WA Digital Display Hydraulic Universal Testing Machine



### Use:

It is suitable for doing testing experiments such as the tensile, compression, bending and shear testing for all kinds of metal materials and nonmetal materials such as plastic, concrete, cement and so on.

### Standard:

It accords with the relative requirements of ISO, ASTM, JIN, GB and many other testing methods. EN10002-1, ISO 6892, ASTM E8, ASTM C39, ASTM F606, SAE J429, CE Compliant

### Feature:

These frames feature dual spaces so users can quickly change between tension and compression testing without having to remove heavy fixtures. Control console with integrated digital meter, hydraulic power pack, precise electronic loading regulator and unloading valves. Extra-length screws and columns, with an adjustable lower crosshead, to increase the available test space for longer test samples. With digital displacement transducer for the best positioning and measuring accuracy.

### Accessories:

Main frame; Control console; Controller and sensor; Sample jaw three sets; Bend support saddle; Bend pressure energy; Spheric compression plate; Lower compression plate; Top board; Ground screw and nut; Inner hexagon spanner; wire power cord; O type gasket; Cruciform screw driver; Double offset ring spanner; Other accessories full sets.

### Specification:

WA-1000B WA-600B WA-300B WA-100B

Machine model		WA-300B	WA-600B	WA-1000B
Technical Parameter	Max. testing power	300KN	600KN	1000KN
	Testing power Precision	grade one		
	Max. lift speed of testing board	70mm/min		
	Max. tension distance	620mm	640mm	700mm
	Compress distance	0-380mm	0-450mm	0-470mm
Clamp grip Parameter	Clamp diameter of round specimen	ϕ 0-32mm	ϕ 13-40mm	ϕ 20-60mm
	Clamp thickness of flat specimen	0-15mm	0-30mm	0-40mm
	Clamp width of flat specimen	80mm		
	Size of compression plate	160mmX160mm	205mmX205mm	205mmX205mm
	Bending stick distance	350mm	500mm	500mm
	Bending stick width	140mm		
	Bending degree allowance	100mm		150mm
Main frame Parameter	Main frame size	740X580X2045mm	900X630X2070mm	900X630X2160mm
	Controller size	620x560x1560mm		
	Oil pump power	1.5KW		
	Distortion testing device	Staff		
	Overload protection	2-5%		
	Weight	1800kgs	2300kgs	3000kgs

## STYE-2000C/STYE-3000C Full Automatic Compression Testing Machine



### Use

Computer controlled hydraulic servo compression testing machine is mainly used to test compression strength of cement, concrete, rocks, brick. they also can perform shear test, anti-break test and elastic modulus test of concrete with special compression fixtures and measurement assembly.

### Feature

Space adjusting, & test processes could be controlled by the software and the test result could be transferred to the software in the computer for further analysis. It is the most advanced series in hydraulic compression testing machines. It is widely used in different steel works, engineering areas, quality control department, Universities and institutes as well as other areas and works.

Fully computer controlled testing process.

Stable and reliable high intensity structure load frame.

Real time display software will provide accurate track of testing process.

Powerful multifunctional control software will provide more testing methods and standards.

Overload protection will secure operators.

Safe and reliable software interface and control. It is very easy to prevent mistake operation during the test stage which will cause damage to the testing machine.

Easy and fast to edit customized test reports in EXCEL format.

### STYE-2000C

#### Specification:

Max. testing power: 2000KN

Measuring range: 0-2000KN

Relative indication error: +1%

Max. distance between the up and down bearing plates: 310mm

Max. piston stroke: 90mm

Diameter of the piston:  $\varnothing$  250mm

Rated pressure of the hydraulic pump: 40Mpa

Power: AC220V+15% 50Hz

Outside size: 950×400×1560mm

Max. piston lift speed: 50mm/min.

Piston free back speed: 20mm/min.

Net weight: about 850KGS

Noise:  $\nabla$ 80Db

### STYE-3000C

#### Specification:

Max. testing power: 3000KN

Measuring range: 0-3000KN

Relative indication error: +1%

Max. distance between the up and down bearing plates: 380mm

Max. piston stroke: 90mm

Diameter of the piston:  $\varnothing$  310mm

Rated pressure of the hydraulic pump: 40Mpa

Power: AC220V+15% 50Hz

Outside size: 1120X620X2000mm

Max. piston lift speed: 50mm/min.

Piston free back speed: 20mm/min.

Net weight: about 1650KGS

Noise:  $\nabla$ 80Db

## STYE-2000E/3000E Full Automatic Compression Testing Machine



### Use

Computer controlled hydraulic servo compression testing machine is mainly used to test compression strength of cement, concrete, rocks, brick. they also can perform shear test, anti-break test and elastic modulus test of concrete with special compression fixtures and measurement assembly. Space adjusting, & test processes could be controlled by the software and the test result could be transferred to the software in the computer for further analysis. It is the most advanced series in hydraulic compression testing machines. It is widely used in different steel works, engineering areas, quality control department, Universities and institutes as well as other areas and works.

Fully computer controlled testing process.

Stable and reliable high intensity structure load frame.

Real time display software will provide accurate track of testing process.

Powerful multifunctional control software will provide more testing methods and standards.

Overload protection will secure operators.

Safe and reliable software interface and control. It is very easy to prevent mistake operation during the test stage

which will cause damage to the testing machine.

Easy and fast to edit customized test reports in EXCEL format.

### Specification:

STYE-2000E

Max. Testing power: 2000KN

Measuring range: 0-2000KN

Relative indication error: +1%

Max. distance between the up and down bearing plates: 310mm

Max. piston stroke: 300mm

Diameter of the piston:  $\varnothing$  250mm

Rated pressure of the hydraulic pump: 40Mpa

Power: AC380 or AC220V+15% 50Hz

Main frame: 600×600×2000

Control console: 1050×650×860

Max. piston lift speed: 50mm/min.

Piston free back speed: 20mm/min.

Net weight: about 1650KGS

Noise:  $\nabla$ 80Db

STYE-3000E

Max. Testing power: 3000KN

Measuring range: 0-3000KN

Relative indication error: +1%

Max. distance between the up and down bearing plates: 380mm

Max. piston stroke: 300mm

Diameter of the piston:  $\varnothing$  310mm

Rated pressure of the hydraulic pump: 40Mpa

Power: AC380 or AC220V+15% 50Hz

Main frame: 600×600×2240

Control console: 1050×650×860

Max. piston lift speed: 50mm/min.

Piston free back speed: 20mm/min.

Net weight: about 2250KGS

Noise:  $\nabla$ 80Db

## STYE-2000B/3000B Digital Display Hydraulic Compression Testing Machine



### Use:

STYE-2000 Digital Display Hydraulic Compression Testing Machine is designed to conduct compression and crushing strength tests on Containers, Concrete cubes & cylinders, hollow blocks and various other materials in accordance with International standard. The machine is electro-hydraulically operated. The Control Panel comprises of Hydraulic Power Pack, Digital Readout System, Operating Switches, Load Control Valves, Output Print-out of Test Data.

### Feature:

- Screw pole automatic moving
- Efficient hydraulic power packs
- Economic machines ideal for site use
- Designed to meet the need for a simple, economic and reliable means of testing concrete.
- The dimensions of the frame allow the testing of cylinders up to 320 mm long x 160 mm diameter, and cubes 200mm, 150mm or 100 mm square, 50 mm/2 in. square mortar cubes, 40 x 40 x 160 mm mortar and any arbitrary size.
- Digital readout is a microprocessor controlled instrument which is fitted as standard to all digital machines in the range.
- Calibrated accuracy and repeatability is better than 1% over the upper 90% of the working range.

### Specification:

#### STYE-2000B

Max. Testing power: 2000KN  
 Measuring range: 0-2000KN  
 Relative indication error: +1%  
 Max. distance between the up and down bearing plates: 310mm  
 Max. piston stroke: 90mm  
 Diameter of the piston:  $\varnothing$ 250mm  
 Rated pressure of the hydraulic pump: 40Mpa  
 Power: AC380 or AC220V+15% 50Hz  
 Outside size: 950×400×1560mm  
 Max. piston lift speed: 50mm/min.  
 Piston free back speed: 20mm/min.  
 Net weight: about 850KGS  
 Noise:  $\nabla$ 80Db

#### STYE-3000B

Max. Testing power: 3000KN  
 Measuring range: 0-3000KN  
 Relative indication error: +1%  
 Max. distance between the up and down bearing plates: 380mm  
 Max. piston stroke: 90mm  
 Diameter of the piston:  $\varnothing$ 310mm  
 Rated pressure of the hydraulic pump: 40Mpa  
 Power: AC380 or AC220V+15% 50Hz  
 Outside size: 1120×620×2000mm  
 Max. piston lift speed: 50mm/min.  
 Piston free back speed: 20mm/min.  
 Net weight: about 1850KGS  
 Noise:  $\nabla$ 80Db

## STYE-2000/1000 Digital Display Hydraulic Compression Testing Machine



### Use:

STYE-2000 Digital Display Hydraulic Compression Testing Machine is designed to conduct compression and crushing strength tests on Containers, Concrete cubes & cylinders, hollow blocks and various other materials in accordance with International standard. The machine is electro-hydraulically operated. The Control Panel comprises of Hydraulic Power Pack, Digital Readout System, Operating Switches, Load Control Valves, Output Print-out of Test Data.

### Feature:

Efficient hydraulic power packs

Economic machines ideal for site use

Designed to meet the need for a simple, economic and reliable means of testing concrete.

The dimensions of the frame allow the testing of cylinders up to 320 mm long x 160 mm diameter, and cubes 200mm, 150mm or 100 mm square, 50 mm/2 in. square mortar cubes, 40 x 40 x 160 mm mortar and any arbitrary size.

Digital readout is a microprocessor controlled instrument which is fitted as standard to all digital machines in the range.

Calibrated accuracy and repeatability is better than 1% over the upper 90% of the working range.

### Specification:

#### STYE-1000

Max. testing power: 1000KN

Measuring range: 0-1000KN

Relative indication error: +11%

Size of the bearing plate: 300×250mm

Max. distance between the up and down bearing plates: 310mm

Max. piston stroke: 90mm

Rated pressure of the hydraulic pump: 40Mpa

Power: AC220V+15% 50Hz

Outside size: 900×400×1090

Max. piston lift speed: 50mm/min.

Piston free back speed: 20mm/min.

Net weight: about 650KGS

Noise: √80Db

#### STYE-2000

Max. testing power: 2000KN

Measuring range: 0-2000KN

Relative indication error: +11%

Size of the bearing plate: 320×260mm

Max. distance between the up and down bearing plates: 310mm

Max. piston stroke: 90mm

Rated pressure of the hydraulic pump: 40Mpa

Power: AC220V+15% 50Hz

Outside size: 950×400×1160mm

Max. piston lift speed: 50mm/min.

Piston free back speed: 20mm/min.

Net weight: about 850KGS

Noise: √80Db

## STYE-2000/1000 Digital Display Hydraulic Compression Testing Machine (Equip Safety Door)



### Use:

STYE-2000 Digital Display Hydraulic Compression Testing Machine is designed to conduct compression and crushing strength tests on Containers, Concrete cubes & cylinders, hollow blocks and various other materials in accordance with International standard. The machine is electro-hydraulically operated. The Control Panel comprises of Hydraulic Power Pack, Digital Readout System, Operating Switches, Load Control Valves, Output Print-out of Test Data.

### Feature:

- Efficient hydraulic power packs
- Economic machines ideal for site use
- Designed to meet the need for a simple, economic and reliable means of testing concrete.
- The dimensions of the frame allow the testing of cylinders up to 320 mm long x 160 mm diameter, and cubes
- 200mm, 150mm or 100 mm square, 50 mm/2 in. square mortar cubes, 40 x 40 x 160 mm mortar and any arbitrary size.
- Digital readout is a microprocessor controlled instrument which is fitted as standard to all digital machines in the range.
- Calibrated accuracy and repeatability is better than 1% over the upper 90% of the working range.

### Specification:

#### STYE-1000

Max. testing power: 1000KN  
 Measuring range: 0-1000KN  
 Relative indication error:  $\pm 1\%$   
 Size of the bearing plate: 300×250mm  
 Max. distance between the up and down bearing plates: 310mm  
 Max. piston stroke: 90mm  
 Rated pressure of the hydraulic pump: 40Mpa  
 Power: AC220V $\pm 5\%$  50Hz  
 Outside size: 900×400×1090  
 Max. piston lift speed: 50mm/min.  
 Piston free back speed: 20mm/min.  
 Net weight: about 650KGS  
 Noise:  $\leq 80$ Db

#### STYE-2000

Max. testing power: 2000KN  
 Measuring range: 0-2000KN  
 Relative indication error:  $\pm 1\%$   
 Size of the bearing plate: 320×260mm  
 Max. distance between the up and down bearing plates: 310mm  
 Max. piston stroke: 90mm  
 Rated pressure of the hydraulic pump: 40Mpa  
 Power: AC220V $\pm 5\%$  50Hz  
 Outside size: 950×400×1160mm  
 Max. piston lift speed: 50mm/min.  
 Piston free back speed: 20mm/min.  
 Net weight: about 850KGS  
 Noise:  $\leq 80$ Db

## STYE-2000D Analogue Display Hydraulic Compression Testing Machine

STYE-2000D



**Features:** underneath type oil cylinder and hydraulic loading, pendulum testing; six-dimensional gamut; with high precision; easy to operate.

**Application:** Compression test of building materials including concrete, cement, airbrick, fire proofing tile, engineering ceramics and building stones;

### Technical parameters:

1. Max. testing power: 2000KN
2. Precision: Superior than grade 1.
3. Piston lift height: 30cm
4. Working voltage: 380V+10% or 220V+10%
5. Size of the bearing plate: 320×260mm
6. Max. distance between the up and down bearing plates: 310mm
7. Max. piston stroke: 90mm
8. Diameter of the piston:  $\varnothing$  250mm
9. Rated pressure of the hydraulic pump: 40Mpa

### Package:

Measurement of 2000KN capacity: 960×480×1170mm, weight: 800kg

## STYE-2000 Digital Display Hydraulic Compression Testing Machine (Fixed Upper Compression Plate)



### Use:

STYE-2000 Digital Display Hydraulic Compression Testing Machine is designed to conduct compression and crushing strength tests on Containers, Concrete cubes & cylinders, hollow blocks and various other materials in accordance with International standard. The machine is electro-hydraulically operated. The control panel comprises of hydraulic power pack, digital readout system, operating switches, load control valves, output print-out of test data.

### Specification:

1. Max. testing power: 2000KN
2. Measuring range: 0-2000KN
3. Relative indication error:  $\pm 1\%$
4. Size of the bearing plate: 320×260mm
5. Max. distance between the up and down bearing
6. Plates: 310mm
7. Max. piston stroke: 90mm
8. Rated pressure of the hydraulic pump: 40Mpa
9. Power: AC220V $\pm 5\%$  50Hz
10. Outside size: 950×400×1160mm
11. Max. piston lift speed: 50mm/min.
12. Piston free back speed: 20mm/min.
13. Net weight: about 850KGS
14. Noise:  $\leq 80$ Db

## STYE-300 Electro-hydraulic Compression Testing Machine



### Description:

The compression testing machine perform compressive strength test of the cement, mortar.

### Features:

1. High-precision sensor and digital display device.
2. Automatically print the test report
3. Peak maintenance
4. Overload Protection
5. Power-off data protection
6. Automatically process the test data



### Specifications:

1. Max. testing power: 300KN
2. Relative indication error:  $\leq \pm 1\%$
3. Rated pressure of the hydraulic pump: 25Mpa
4. Power of motor: three phase 0.75KW
5. Working voltage: 380V $\pm 10\%$  or 220V $\pm 10\%$

## STYE-300 Electro-hydraulic Flexural and Compression Testing Machine

STYE-300



### Description:

The flexural and compression testing machine perform compressive strength test of the cement and the antiflex strength of the concrete on road, bridge and construction.

### Features:

1. High-precision sensor and digital display device.
2. Automatically print the test report
3. Peak maintenance
4. Overload Protection
5. Power-off data protection
6. Automatically process the test data



### Specifications:

1. Max. testing power: 300KN
2. Relative indication error:  $\leq \pm 1\%$
3. Rated pressure of the hydraulic pump: 25Mpa
4. Diameter of the antiflex roller: 30mm
5. Max. distance between the up roller and the down roller: 165mm
6. Power of motor: three phase 0.75KW
7. Working voltage: 380V $\pm 10\%$  or 220V $\pm 10\%$

STYE-300C Full Automatic Cement Flexural and Compression Testing Machine

STYE-300C



Features :

1. Main frame made of stainless steel
2. Capable of compressive test and flexural test for cement specimen
3. Computer operation, standard keyboard data input, automatic data saving; constant loading with loading speed adjustable; with overload protection facility;
4. Large capacity of data record
5. Easy to operate



Flexure Clamp

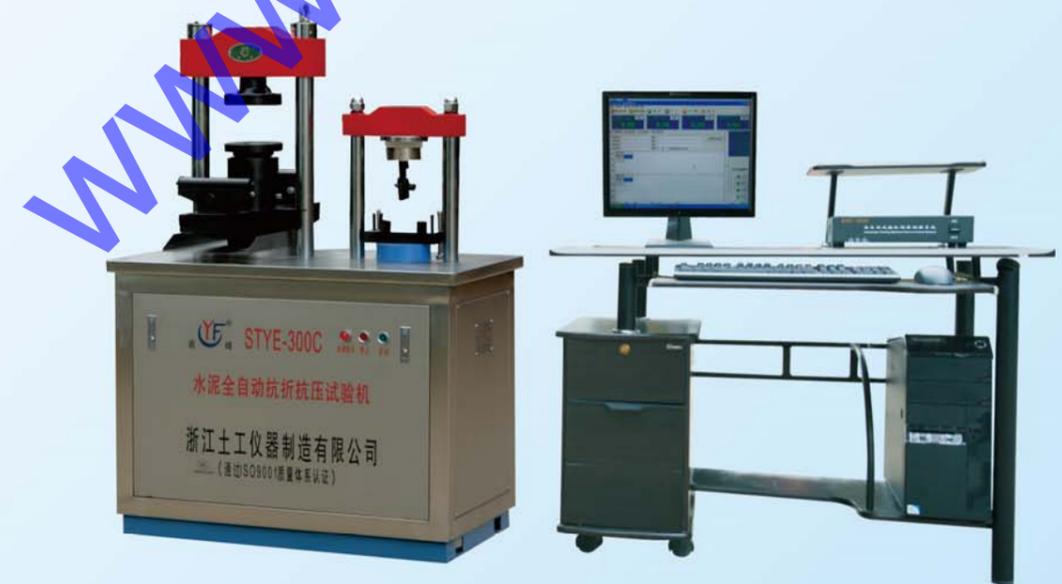


Compression Clamp

Specification:

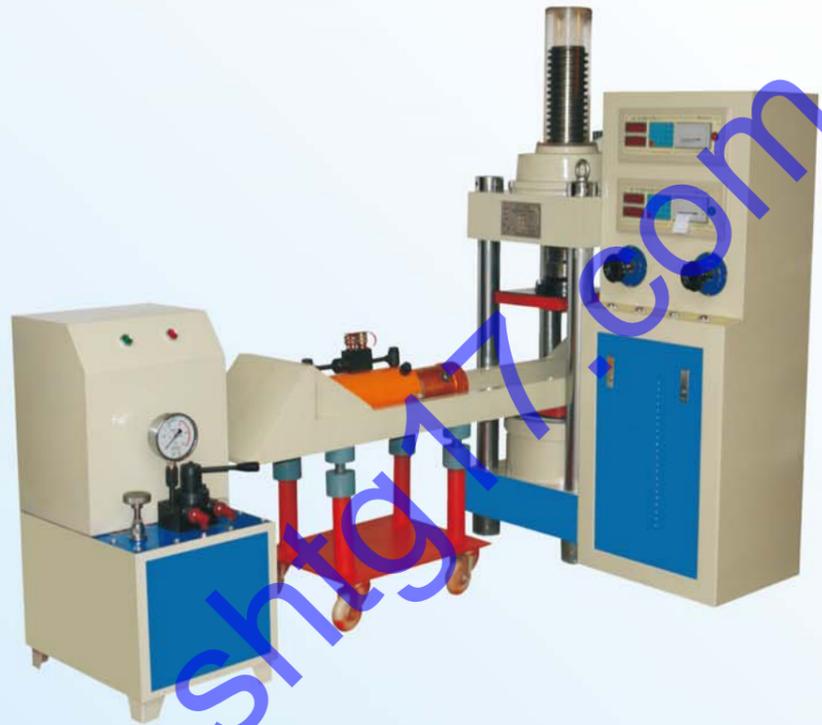
1. Max. testing power: 300KN (compression) ; 5KN (flexural)
  2. Grade: Superior than grade 1.
  3. Loading rate: 2.4KN/S + 200N/S, 50N/S + 5N/S
  4. Max. experimental space (mm): 250 × 230mm; 220 × 160mm
  5. Working voltage: 380V + 10% or 220 V + 10%
- Measurement: 1060 × 710 × 1510mm, weight: 450kg

STYE-300C Full Automatic Three Function Flexural and Compression Testing Machine  
(With Concrete Flexural Testing)



**STYE-2000J Rock Shear and Compression Testing Machine**

CE



**Application:** perform the shear test and compression test for rock.

**Parameters:**

1. Max. testing power: 2000KN
2. Relative indication error: <math><+1\%</math>
3. Size of the bearing plate: 320mm×260mm
4. Max. distance between upper and lower pressure plates: 310 mm
5. Piston stroke: 90 mm
6. Shearing Jack capacity: 500KN
7. Shearing sensor: 500KN
8. Measurement: 960 mm(L)×480 mm(W)×1170 mm(H)
9. Net Weight: 1000kg

**Features:** hydraulic loading and electronic force measurement; load digital display, max. load maintenance, power-off data protection.

**STYE-2000J PC Controlled Rock Shear and Compression Testing Machine**

CE



**Application:** perform the shear test and compression test for rock.

**Parameters:**

1. Max. testing power: 2000KN
2. Relative indication error: <math><\pm 1\%</math>
3. Size of the bearing plate: 320mm×260mm
4. Max. distance between upper and lower pressure plates: 310 mm
5. Piston stroke: 90 mm
6. Shearing Jack capacity: 500KN
7. Shearing sensor: 500KN
8. Measurement: 960 mm(L)×480 mm(W)×1170 mm(H)
9. Net Weight: 1000kg

**Features:** It adopt high accurated sensor, full automatic pc controlled loading, overload protection.

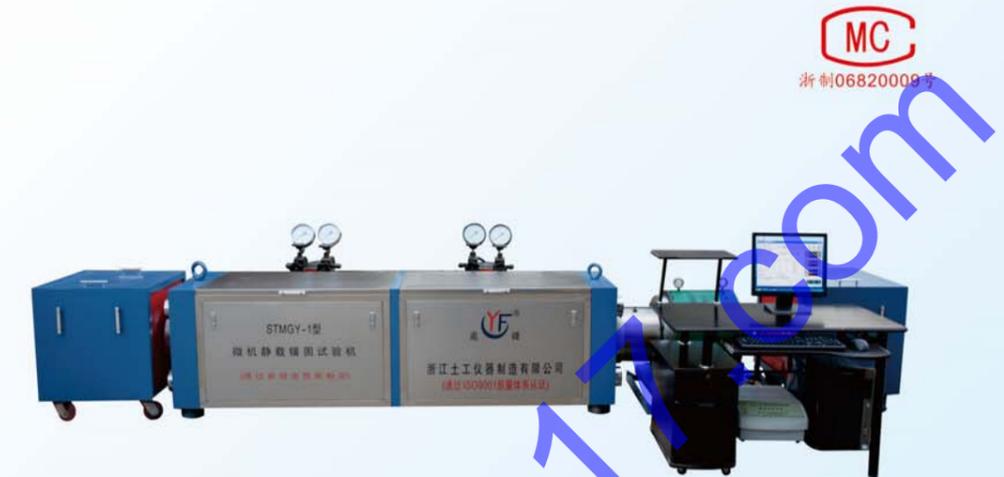
## STYE-5000 Rubber Plinth Shear and Compression Testing Machine



1. Max. testing power (KN) : 5000
2. Max. shearing power (KN) : 500
3. Max. pressure of the pump (Map) : 31.5
4. Swept capacity of the pump (L/min) : 3~4
5. Size of the bearing plate (mm) : 740×40
6. Max. distance of the piston (mm) : 100
7. Distance between columns (mm) : 750
8. Working voltage: 380V+10% (3 phases and 4 lines) 220V+10% (Single phase)
9. Working temperature (°C) : 10~35
10. Relative ambient humidity: ≤ 80%
11. Net weight (kg) : 5500
12. Size of the main frame: 1100×800×2700
13. Size of the cabinet: 480×585×1135mm
14. Packing weight(kg) : 5800
15. Power of the motor (kw) : 3

## STMGY-1 Microcomputer Dead-load Anchor Testing Machine

STMGY-1



The machine uses computer for data process, save and printing. It can automatically follow and measure tensile force and displacement, maintain peak value and inspect loading speed. All test records can be saved, mechanical performance index can be calculated and integrated test report can be printed. This anchor testing machine is recommended to university, industrial enterprises, quality monitoring department and measuring & calibration department for mechanical property tests of raw materials.

### Parameters:

1. Capacity: 0-4000KN 0-5000KN 0-6000KN 0-8000KN 0-9000KN
2. Displacement resolution: 0.1 mm
3. Max. distance of the piston: 0-200 mm
4. Deformation display: 0-200 mm

**Features:** Stainless steel housing; computer data processing; easy to operate.

## STSCJ-300 Microcomputer Controlled Tensile Stress Relaxation Testing Machine



### Features:

1. Relation curves between surplus testing power(or LESR) and the time are available.
2. Specimen Stress relaxation of 1000 hours could be calculated.
3. Loading speed 100-5000N/S, speed is variable.
4. Automatically calculate stress relaxation characteristic(such as stress relaxation rate) and print complete testing report.
5. Load and displacement are calibrated by numbers.
6. Test results are saved and records of testing process could be consulted.
7. The system automatically adjusts coordinates under different testing condition. Complete curve is indicated during test procedure.
8. Test parameters can be automatically saved, assigned out and re-set.
9. Data collection: You can use the mouse to collect data from the curve after the test completed.
10. Stainless steel housing.

### Technical parameters:

1. Max. testing power: 300KN
2. Measuring range: 12-300KN
3. Indication error: <1%
4. Loading precision: 10N
5. Loading speed: 100-5000N/S
6. Lead screw stroke: 100mm
7. Max. distance between the left and the right clamps: 850mm.
8. Power: AC220V+10% 1.0KW

## STYDJ-300 Flue Compression Testing Machine



**Application:** It used to perform compression test of flue and cement pipe.

### Specification:

1. Measurement: 0-300KN
2. Min. distance of up and below compression plate: 1050mm  
Can adjust to 1100mm, 1200mm, 1300mm, 1400mm, and 1500mm.
3. Precision: 1%
4. Resolution: 0.01KN

Max. size of usual flue is 600X400mm, the space from up to below compression plate is bigger than the flue section, so should add 2pcs of veneer which thickness is around 3mm to 5mm to suit machine.

Constant Loading, specimen will break during 30s to 60s.

## STYJG-500 Manhole Cover Compression Testing Machine



**Application:** perform compressive strength test for manhole covers and determine mechanical properties for other materials.

**Parameters:**

1. Capacity: 500KN
2. Measuring range: 0-500KN
3. Relative indication error: +1%
4. Bearing plates size:  $\varnothing 995\text{mm}, 800\text{mm} \times 800\text{mm}$
5. Max. distance between upper and lower plates: 270mm
6. Piston stroke: 300mm
7. Piston diameter: 250mm
8. Rated pressure of the hydraulic pump: 15Mpa
9. Power: 0.75KW
10. Measurement: 1180mm(L)  $\times$  1000mm(W)  $\times$  1300mm(H)
11. Net weight: 1000kg

**Features:** hydraulic loading and electronic force measurement; load digital display, max. load maintenance, power-off data protection; automatical data processing and testing report printing.

## STYJG-500 PC Controlled Manhole Cover Compression Testing Machine



**Application:** perform compressive strength test for manhole covers and determine mechanical properties for other materials.

**Parameters:**

1. Capacity: 500KN
2. Measuring range: 0-500KN
3. Relative indication error: +1%
4. Bearing plates size:  $\varnothing 995\text{mm}, 800\text{mm} \times 800\text{mm}$
5. Max. distance between upper and lower plates: 270mm
6. Piston stroke: 300mm
7. Piston diameter: 250mm
8. Rated pressure of the hydraulic pump: 15Mpa
9. Power: 0.75KW
10. Measurement: 1180mm(L)  $\times$  1000mm(W)  $\times$  1300mm(H)
11. Net weight: 1000kg

**Features:** hydraulic loading and electronic force measurement; PC controlled, max. load maintenance, power-off data protection; automatically data processing by software and testing report printing.

## STPLJ-500 Rail Jointing Fatigue Testing Machine



**Application:** This machine used for fatigue test for rail.

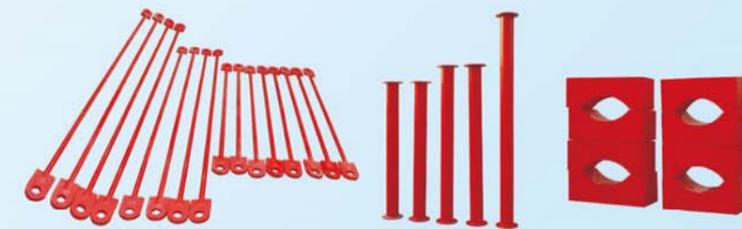
1. Max. Testing power: 500KN
2. Measuring range: 0-500KN
3. Shake frequency: 2-10HZ
4. Relative error of indication:  $\pm 1\%$
5. Working voltage: AC380V
6. Power: 1KW

## STKWJ-2000 Concrete Pile Bending Testing Machine



1. Max. bending pressure: 200KN
2. Error: less than 1%
3. Loading by electric oil pump; digital display testing result; Save peak value automatically.

### Accessories:



## STJWJ-3000 Rail Jointing Static Bending Testing Machine



**Application:** This machine used for static bending test for rail after jointing, also can used for other materials mechanical properties test.

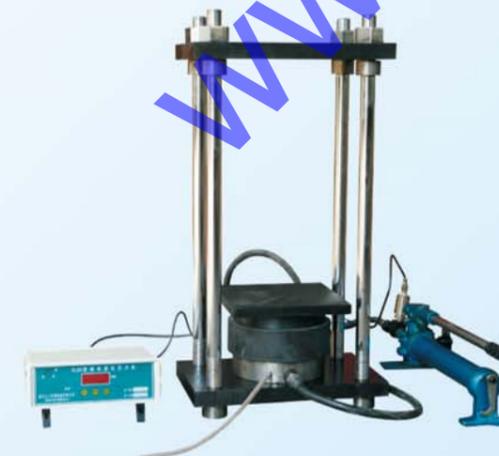
1. Max. Testing power: 3000KN
2. Measuring range: 0-3000KN
3. Relative error of indication:  $\leq +1\%$
4. Working voltage: AC380V
5. Power: 1KW
6. Piston lift height:  $\geq 250\text{mm}$

## STLLJ-5 Tension Testing Machine



1. Max. power: 100KN
2. Speed: 10-110mm/min.
3. Testing Journey: 100mm

## STSL-80 Blocking-up Original Position Compression Machine



1. Rating pressure: 40KN
  2. Limited pressure: 50KN
  3. Max. Distance: 20mm
  4. Limited distance: 25mm
  5. Relative indication error:  $\pm 3\%$
  6. Total weight of the equipment: 104kg, 57kg (the flat jack 57KGS included)
  7. Plane size of the up pressure plate: 400mmX240mm
  8. Oil reserve: 2L
  9. Diameter of the oil tank for the flat jack: 140mm
- Structure:** This equipment is consist of the flat jack, 4 columns, up pressure plate, down pressure plate, ball pad, hand pump compression rod, digital gauge and so on.

## STZCL-500 High Strength Friction Grip Bolt Survey Tester



1. Measuring range: M16~M30
2. Max. Power range: 500KN
3. Precision: 0.1KN
4. Working voltage: 220V +10%
5. Torquemoment1: 0~1000N.m
6. Torquemoment2: 0~2000N.m

## STGW-40B Double Station Steel Bar Bending Machine



### Specification:

1. Max. thrust: 160KN
2. Width of roller: 118-450mm
3. Diameter of roller: Dia.100mm
4. Min. of steel bar size: Dia.6mm
5. Max. of steel bar size: Dia.40mm
6. Max. bending angle: 180
7. Diameter of oil cylinder: Dia.110mm
8. Stroke of piston: 360mm
9. Power: 3000W

**Feature:** It is loading by hydraulic cylinder, manual valve control working direction of hydraulic cylinder, easy operating, high working efficiency, suit to do bending test of steel bar.

## GW40 Steel Bar Bending Machine



1. Working disk: dia350mm
2. Power: 3KW
3. Accepted steel bar diameters: 6-40mm (A3),  
6-36mm (grade II screw steel)
4. Accepted steel bar strength: less than 450Mpa
5. Principal axis rotation: 5-10 rpm

## GQ40 Steel Bar Cutting Machine



1. Capacity: round steel bar  $\delta b \sqrt{450MP}$ ,  
dia 6-40mm  
Grade II screw steel less than 36mm
2. Impaction: 32 times/min
3. Power: 5.5KW/380V

## STLLJ-1 Digital Electronic Tensile Testing Machine

STLLJ-1



CE

1. Max. Tension power: 1000N
2. Resolution of beam displacement: 0.01mm
3. Beam speed: adjustable from 0.1 to 500mm/min
4. Valid testing space: 800mm
5. Working environment: temperature 10-30°C, humidity less than 80%

**Feature:** upright column housed by aluminium section.



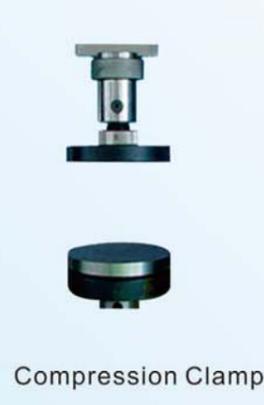
Steel Fibre Cohesion Clamp



Clamp for electric wire



Waterproof roll stretch clamp



Compression Clamp



Clamp for geotechnical fabric



Steel wire stretch clamp



[8] form mould stretch clamp



Clamp for mortar cohesion

## STLLJ-2 Digital Display Tension Testing Machine

STLLJ-2



CE

### Application:

This type tensile testing machine used for testing tension power of both metallic and non-metallic materials such as rubber, plastic, textiles, waterproofing material, wire and cable, safe belt, leather belt composite materials, net wire, steel, stainless steel, metal rod, plates and other materials. By use suit accessories, it also can perform compression, bending and flexure test.

### Specification:

- 1). Max tension power: 10KN
- 2). Range: 0-10KN
- 3). Testing power accuracy: better than 1%
- 4). Between two clamps largest net spacing distance: 500mm
- 5). Speed rate: 10~110mm/min
- 6). Speed control accuracy: better than 1%
- 7). Machine grade: better than one grade
- 8). Work voltage: 380V +10% or 220V +10%

## STLLJ-3 Computer Control Tension Testing Machine

### Application:

This type tensile testing machine used for testing tension power of both metallic and non-metallic materials such as rubber, plastic, textiles, waterproofing material, wire and cable, safe belt, leather belt composite materials, net wire, steel, stainless steel, metal rod, plates and other materials.

By use suit accessories, it also can perform compression, bending and flexure test.

### Specification:

- 1). Max tension power: 10KN
- 2). Range: 0-10KN
- 3). Testing power accuracy: better than 1%
- 4). Between two clamps largest net spacing distance: 500mm
- 5). Speed rate: 10~110mm/min
- 6). Speed control accuracy: better than 1%
- 7). Machine grade: better than one grade
- 8). Work voltage: 380V +10% or 220V +10%

CE

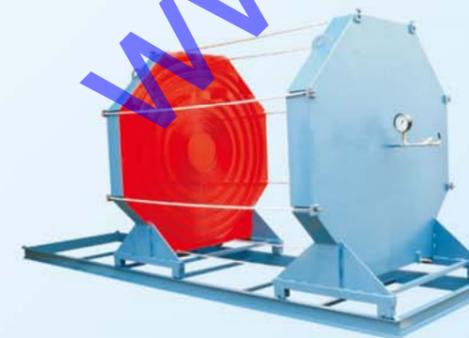


## STGYJ-1 Concrete Drainage Pipe Pressure Testing Machine



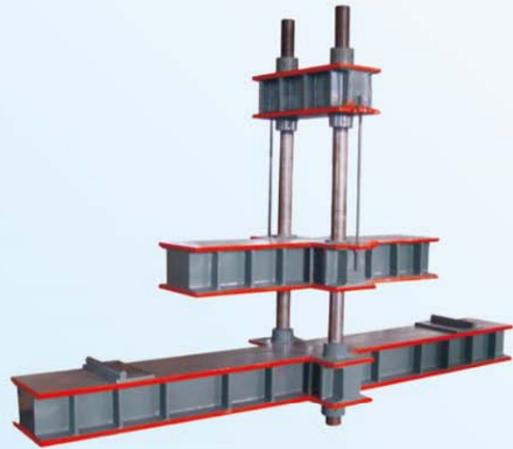
1. Drainage pipe: diameter 300-3000mm
2. Max. pressure: 500KN
3. Voltage: 220V

## STNYJ-2 Concrete Drainage Pipe Internal Pressure Testing Machine



1. Drainage pipe: diameter 300-3000mm
2. Pressure: 0.16Mpa

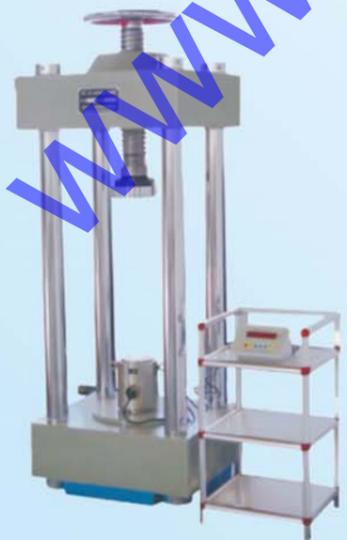
## Reaction Force Framework



It's mainly used for concrete beam examination

Max. load: 500KN 1000KN

## STFJ Reaction Force Framework



It is mainly used to calibrate Jack.

Max. load: 3000KN,4000KN,5000KN,6000KN,  
8000KN,9000KN

## HR-150A Rockwell Hardness Tester



**Application:** This apparatus be easy operated, is one widely used Rockwell hardness test apparatus, can do Rockwell hardness test for ferrous metal and nonferrous metal.

1. Start test power: 98.07N(10Kgf)
2. Total test power: 588.4N (60Kgf), 980.7N (100Kgf), 1471N (150Kgf)
3. Squeeze head: diamond squeeze head  
a=120°, R=0.2mm
4. Steel ball squeeze head diameter is 1.5875mm.
5. Display: Analogue display
6. The max. Height of sample: 170mm
7. Out size: 510X212X730mm
8. Net weight: 85Kg.

## Standard Load Cell



Load Cell



Dynamometer

**Specification:**

2KN	5KN
30KN	50KN
500KN	1000KN
2000KN	3000KN
5000KN	10000KN

## STDD-1 Continuous Steel Bar Striking Machine

1. 40 marks every shaking
2. Distance between two adjacent marks: 10mm



## Vernier caliper



### Specification:

- 0-1000mm
- 0-500mm
- 0-300mm
- 0-200mm
- 0-150mm

Brick caliper



## Triplex Consolidation Apparatus



Digital Vernier Caliper



Universal Protractor



Bearing Type

Blade Type

Manufacturing License for China  
Industrial Products  
(XK07-003-00014)

### GDZ-2 High-pressure type Consolidation Testing Apparatus

- 1). Specimen area: 30cm<sup>2</sup>, 50cm<sup>2</sup>
- 2). Specimen number: 3
- 3). Pressure range: 12.5-1600kpa, 12.5-3200kpa
- 4). Load grade: 12.5, 25, 50, 100, 200, 300, 400, 800, 1600, 3200

### WG-1B Triplex Mid-pressure Consolidation Testing Apparatus

- 1). Specimen area: 30cm<sup>2</sup>, 50cm<sup>2</sup>
- 2). Specimen number: 3
- 3). Pressure range: 12.5-1600kpa, 12.5-800kpa
- 4). Load grade: 12.5, 25, 50, 100, 200, 300, 400, 800, 1600

### WG-1C Triplex Low -pressure Consolidation Testing Apparatus

- 1). Specimen area: 30cm<sup>2</sup>, 50cm<sup>2</sup>
- 2). Specimen number: 3
- 3). Pressure range: 12.5-800kpa
- 4). Load grade: 12.5, 25, 50, 100, 200, 300, 400, 800

## WG-1Q Full Automatic Pneumatic Consolidation Apparatus

CE



Manufacturing License for China  
Industrial Products  
(XK07-003-00014)

TWJ-1 Microcomputer Data Device

**Application:** perform consolidation tests by combining latest technique in mechanism, electronics, automation, transducer and computer, automatic load and unload, data acquisition.

**Features:** Computer controlled, curve and test report printable

**Specification:**

1. Precision on zero point:  $\pm 1.0\text{Kpa}$
  2. Loading time: within 1 second
  3. Measuring range: 10mm, Resolution: 2.5um, precision: 0.2%F.S
- Available in three load ranges
1. Low pressure: 0-800Kpa, relative error:  $\pm 1\%$
  2. Middle pressure: 0-1600Kpa, relative error:  $\pm 1\%$
  3. High pressure: 0-3200Kpa, relative error:  $\pm 1\%$

**Packinglist:**

Controller	1set	Load Cell	16 pcs
Main Frame(duplicate)	8sets	Computer	1set
Software	1pc	Air pump	1pc
Pipe line	1pc		

**Feature:**

1. It is portable, small volume, less link, easy to install and high reliability. It is suitable for using in the field.
  2. It can separately work and discretionarily assemble. One collector is one acquisition unit.
  3. It is connected with the computer through the serial port, but it is irrelevant with the computer.
- Any standard computer is suitable, you can freely change and upgrade.

## WG-1Q Full Automatic Pneumatic Consolidation Apparatus (Equip working table)

CE



Manufacturing License for China  
Industrial Products  
(XK07-003-00014)

**Application:** perform consolidation tests by combining latest technique in mechanism, electronics, automation, transducer and computer, automatic load and unload, data acquisition.

**Features:** Computer controlled, curve and test report printable

**Specification:**

1. Precision on zero point:  $\pm 1.0\text{Kpa}$
  2. Loading time: within 1 second
  3. Measuring range: 10mm, Resolution: 2.5um, precision: 0.2%F.S
- Available in three load ranges
1. Low pressure: 0-8000Kpa, relative error:  $\pm 1\%$
  2. Middle pressure: 0-1600Kpa, relative error:  $\pm 1\%$
  3. High pressure: 0-3200Kpa, relative error:  $\pm 1\%$

**Packinglist:**

Controller	1set	Load Cell	16 pcs
Main Frame(duplicate)	8sets	Computer	1set
Software	1pc	Air pump	1pc
Pipe line	1pc		

## WG-4 Light-duty Consolidation Apparatus



1. Area of sample: 30cm<sup>2</sup>
2. Pressure range: 12.5-400Kpa
3. Lever ratio: 1:20
4. Net weight of the equipment: 20Kg

**Features:** Small volume, light weight, suitable for using in the field.

Manufacturing License for China  
Industrial Products  
(XK07-003-00014)

## WG-1B Consolidation Apparatus (Single type)



1. Structure: Bearing type
2. Specimen Area: 30cm<sup>2</sup>
3. Loading grade: 9
4. Pressure range: 12.5-3200Kpa

## STJCY-1 KO Consolidation Apparatus



1. Size of the specimen:  $\varnothing 61.8\text{mm} \times 40\text{mm}$
2. Axial load: 6KN
3. Side pressure: 0Kpa-1000 Kpa
4. Axial displacement: 0-10 mm
5. Working temperature: 20 $\varnothing$  +15 $\varnothing$
6. Relative moisture: < 85%
7. Relative error of the proving ring: < 1 $\varnothing$
8. Relative error of the height: +2 $\varnothing$

## BHWSW-500 Large High-pressure Solid Waste Compressometer



**Application:** It is mainly used for kinds of the property detection of the trash earth.

1. Max. Vertical load: 300KN  
Resolution factor: 0.1KN
2. Max. Pressure: 1Mpa  
Resolution factor: 0.001Mpa
3. Max. Displacement: 200mm  
Resolution factor: 0.1mm

Developed together by Zhejiang University

## ZJ-1Q Light-duty Shear Testing Apparatus



Manufacturing License for China  
Industrial Products  
(XK07-003-00014)

1. Testing area: 30cm<sup>2</sup>
2. Max. Vertical & horizontal loading: 1.2KN
3. Lever ratio: 1: 2
4. Rotate the hand wheel to push the axial displacement 0.2mm as per circle.

## EDJ-1 Electric Strain Direct Shear Testing Apparatus (Double speed) EDJ-2 Electric Strain Direct Shear Testing Apparatus (Three speed)



Manufacturing License for China  
Industrial Products  
(XK07-003-00014)

Application: This apparatus is used to test resisting shear strength of soil specimen.

### Specification:

1. Area of the soil sample: 30cm<sup>2</sup>
2. Lever ratio: 1:12
3. Vertical loading: 50, 100, 200, 300, 400(Kpa)
4. Max. horizontal loading: 1.2KN
5. Shear rate: 0.02, 0.8, 2.4mm/min
6. Handwheel speed: 0.1, 4, 12mm/min
7. AC220VAC~60HZ
8. Packing measurement for EDJ-1: 880x600x1210mm, weight: 105kg  
Packing measurement for EDJ-2: 940x600x1170mm, weight: 110kg

## STZJY-6 Digital Electric Strain Direct Shear Apparatus



Manufacturing License for China  
Industrial Products  
(XK07-003-00014)

**Application:** This apparatus is used to test resisting shear strength of soil specimen. The direct shear apparatus is driven by a stepper motor and controlled by a microprocessor system, with load cell and linear electronic transducers to operate independently to perform standard or cyclic tests, programmable by keyboard input and obtaining all data concerning load, horizontal displacements from the display.

### Specification:

1. LCD display
2. Accepts specimens 61.8x20mm
3. Area of soil sample: 30cm<sup>2</sup>
4. Lever ratio: 1:12
5. Vertical Loading: 50, 100, 200, 300, 400(Kpa)
6. Max. horizontal loading: 1.2KN
7. Variable speed, 0.01 to 2.99mm/minute
8. AC220VAC~60HZ
9. Packing measurement: 1000x680x1300mm, weight: 215kg

### Features:

1. Microprocessor controlled drive system
2. Large LCD display
3. Test speed, travel and cycles programmable by the keyboard
4. Rapid approach and automatic home positioning
5. Infinitely variable speed drive
6. Standard Pressure sensor and displacement sensor

## STSJ-5 Intelligent Electric Tetragenous Direct Shear Testing Apparatus



Patent product, approved on provincial level

Manufacturing License for China  
Industrial Products  
(XK07-003-00014)

**Application:** This apparatus is used to test resisting shear strength of soil specimen. It usually adopts four specimens under the different vertical pressure exerted on the specimens to obtain shear stress when the specimen is destroyed.

**Specification:**

Area of soil sample: 30cm<sup>2</sup>  
Lever ratio: 1:12  
Vertical Loading: 50, 100, 200, 300, 400(Kpa)  
Max. horizontal loading: 1.2KN  
Shear rate: 5, 2.4, 1.5, 1, 0.8, 0.02, 0.01mm/min  
4 specimens in the same test

Working voltage: AC220V  
Measurement: 1160x900x1160mm(main frame),  
490x490x960mm(controller), weight: 235kg  
**Features:** Stainless steel working table, stepping motor as pushing mechanism, high precision, low noise, MCU control, variable speed displayed by the controller, easy to operate



**Shear Box**

Dimension:  $\varnothing 61.8\text{mm} \times 20\text{mm}$



**Controller**

## STSJ-5A Intelligent Electric Tetragenous Direct Shear Testing Apparatus



Patent product, approved on provincial level

Manufacturing License for China  
Industrial Products  
(XK07-003-00014)

**Application:** This apparatus is used to test resisting shear strength of soil specimen. It usually adopts four specimens under the different vertical pressure exerted on the specimens to obtain shear stress when the specimen is destroyed.

**Specification:**

1. Area of soil sample: 30cm<sup>2</sup>
2. Lever ratio: 1:12
3. Vertical Loading: 50, 100, 200, 300, 400(Kpa)
4. Max. horizontal loading: 1.2KN
5. Shear rate: 5, 2.4, 1.5, 1, 0.8, 0.02, 0.01mm/min
6. 4 specimens in the same test
7. Working voltage: AC220V
8. Measurement: 1160x900x1160mm(main frame), 500x500x1020mm(controller), weight: 240kg

**Features:** Stainless steel working table, stepping motor as pushing mechanism, high precision, low noise, MCU control, variable speed displayed by the controller, easy to operate, ABS vertical type controller, LCD display.

## STZJY-500 PC Control Large Direct Shear Testing Machine



1. Max. vertical loading: 400Kpa
2. Max. horizontal loading: 50KN
3. Shear rate: 1mm/min.

**Feature:** PC controlled, hydraulic servo

## STWZJ-2 Digital High and Low Temperature Direct Shear Apparatus



1. Area of the soil sample: 30cm<sup>2</sup>
2. Lever ratio: 1:12
3. Vertical loading: 50,100,200,300,400(Kpa)
4. Max. Horizontal loading: 1.2KN
5. Shear rate: 0.01-6.99mm/min
6. Voltage: AC220V

Feature: With heating, cooling function when test

## ZYY-II B Duodenary Direct Shear Pre-pressing Apparatus



1. Area of soil sample: 30cm<sup>2</sup>
2. Lever ratio: 1:12
3. Loading grade: 50, 100, 200, 300, 400Kpa
4. Quantity of soil sample per time: 36PCS

Feature: Stainless steel vessel and working table

Table can be adjusted to level by the handwheel

## STSZ-1Q 10KN Light-duty Triaxial Test Set



Manufacturing License for China  
Industrial Products  
(XK07-003-00014)

**Application:** to measure soil shearing strength, thus analyzing soil stability and providing data for construction projects. Perform UU, CU and CD triaxial tests.

**Technical parameters:**

1. Specimen size: 39.1(Dia)×80mm
2. Max. axial load: 10KN
3. Lift speed range(mm/min): 0.003,0.006,0.008, 0.012,0.020,0.030,0.040,0.050,0.060,0.070, 0.080,0.090,0.100,0.200,0.300,0.400,0.500, 0.600,0.700,0.800,0.900,1.000,3.000;
4. Max. stroke: 35mm
5. Max. confining pressure: 1Mpa
6. Max. back pressure: 0.6Mpa
7. Pore water pressure:0-1Mpa
8. Volume change range:0-50ml, min. division 0.1ml
9. Axial displacement range: 0-30mm

## STSZ-2 30KN Midium Pressure Triaxial Test Set



Manufacturing License for China  
Industrial Products  
(XK07-003-00014)

**Application:** Applied to measure the strength and deformation characteristics of the soil specimen. Perform unconsolidated undrained shear test(UU), consolidated unstrained shear test(CU) and consolidated drained shear test(CD).

**Technical parameters:**

1. Specimen size:  $\Phi 39.1 \times 80\text{mm}$ ,  $\Phi 61.8 \times 125\text{mm}$
2. Axial load: 30KN
3. Lift speed range(mm/min): 0.003, 0.006, 0.008, 0.012, 0.020, 0.030, 0.040, 0.050, 0.060, 0.070, 0.080, 0.090, 0.100, 0.200, 0.300, 0.400, 0.500, 0.600, 0.700, 0.800, 0.900, 1.000, 3.000
4. Max. Stroke: 50mm
5. Max. confining pressure: 2.5Mpa
6. Max. back pressure: 1Mpa
7. Pore water pressure: 0-2Mpa
8. Volume change range: 0-50ml
9. Min. division: 0.1ml
10. Axial displacement range: 0-30mm
11. Displacement rate: 0.001-1mm/min

## STSZ-8 80KN High Pressure Triaxial Test Set



Manufacturing License for China  
Industrial Products  
(XK07-003-00014)

**Application:** determine the strength and deformation characteristics of the soil specimen. Perform unconsolidated-undrained shear test(UU), consolidated-unstrained shear test(CU) and consolidated drained shear test(CD).

**Technical parameters:**

1. Specimen size:  $\Phi 61.8 \times 125$ ,  $\Phi 101 \times 220\text{mm}$
2. Axial load: 80KN
3. Lift speed range(mm/min): 0.003, 0.006, 0.008, 0.012, 0.020, 0.030, 0.040, 0.050, 0.060, 0.070, 0.080, 0.090, 0.100, 0.200, 0.300, 0.400, 0.500, 0.600, 0.700, 0.800, 0.900, 1.000
4. Max. Stroke: 50mm
5. Max. confining pressure: 2.5Mpa
6. Max. back pressure: 1Mpa
7. Pore water pressure: 0-2Mpa
8. Volume change range: 0-50ml
9. Min. division: 0.1ml
10. Axial displacement range: 0-30mm

## STSZ-ZD Full Automatic Triaxial Test Set



### Feature:

Controlled by single chip, data setting of confining pressure and backpressure is by keyboard input., elevation of main frame is controlled. Main frame is driven by servo motor, and shearing rate is variable.

### Parameters:

1. Axial force: 0-10KN, measurement accuracy:  $\pm 1\%$
2. Shear rate: 0.001-2.4mm/min
3. Specimen size:  $\Phi 39.1 \times 80$ mm
4. Confining pressure: 0-1Mpa
5. Backpressure: 0-1Mpa
6. Aperture pressure: 0-1Mpa
7. Volume change: 0-50ml

Features: computer control, curves and test reports can be printed

Manufacturing License for China Industrial Products (XK07-003-00014)

### Accessories



Saturator



Soil cutter



Compactor



Split mould



Membrane tube



Triaxial cell

## STSZ-ZD Large Triaxial Apparatus



Application: It used to test shear strength of coarse grained soil which particle size is 60mm.

Specification:

1. Size of the soil sample: Dia. 30cm X 60cm
2. Axial loading: 1500KN
3. Max. stroke: 300mm
4. Max. Confining pressure: 2Mpa
5. Max. Back pressure: 1Mpa
6. Pore water pressure: 2Mpa

## STQY1-3 Improved Consolidation Apparatus



Application: It is a collection compression and infiltration.

It can determine vertical consolidation and infiltration ( $C_r$ ).

It can determine the vertical osmotic coefficient of the foundation soil ( $K_r$ ).

1. Specimen's dimensions: 30cm<sup>2</sup> height: 2cm Duplex
2. Max soil pressure: Consolidation pressure 1000Kpa  
Osmotic pressure 200Kpa
3. Min. output transducer : 1Kpa

## ST55-2 Improved Permeameter



1. Specimen's dimensions:  $\Phi 61.8 \times 40\text{mm}$

2. Max water leakage: 100Kpa

Features: Convenient to disassemble and assemble, equable stress (use the handwheel to do the rotary extrusion in the center), good leak-proofness.

## ST55-3 Measuring Board for the Permeameter



**Application:** It is suitable for the improved permeameter ST55-2.

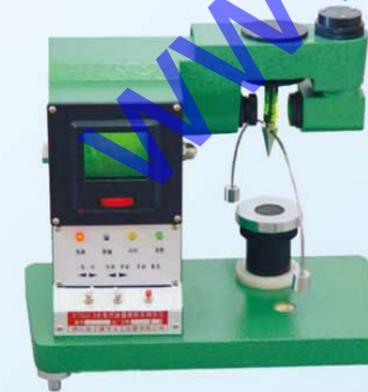
## ST-70 Permeability Testing Machine



**Application:** It is used to determine the penetration coefficient when the sand soil and the incoherence soil which has few broken-stones to carry on the permeability test under constant head.

1. Inside diameter of the cylinder:  $\Phi 100\text{mm}$
2. Height of the cylinder: 400mm
3. Three measuring pressure holes
4. Distance between the measuring pressure pipe: 100mm
5. Size of the instrument:  $400 \times 226 \times 146\text{mm}$

## STGD-3 Photoelectricity Liquid Plastic Limit United Device(76g 100g)



**Features:** the liquid plastic limit united device adopts optical projection principle, penetration depth is optically amplified. Automatic electromagnet conedrop; supplied together with cone damage inspecting apparatus. With high precision, easy to operate, no friction and automatically reading.

**Specification:**

1. Cone angle:  $30^\circ$
2. Cone's weight: 76g 100g
3. Measure penetration depth of cone between 0-22mm;
4. Precision: 0.1mm
5. Cone damage inspection: 0.3mm
6. Reading display: 5 sec after cone drop
7. Electromagnet suction:  $> 100\text{g}$
8. Power: 25W
9. Working voltage: AC220V
10. Measurement:  $300 \times 160 \times 280\text{mm}$ ; weight: 5kg

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(XK07-003-00014)

## STYS-1 Digital Liquid Plastic Limit United Device



Manufacturing License for China  
Industrial Products  
(XK07-003-00014)

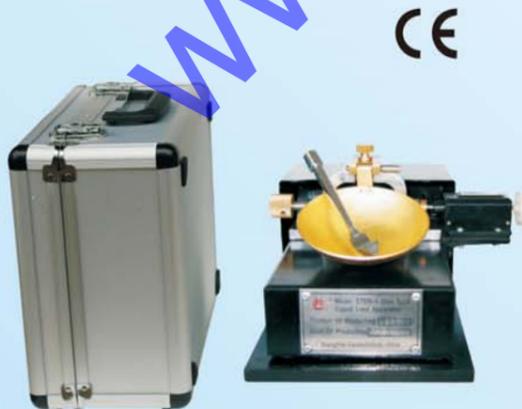
**Application:** The equipment is used to determine liquid and plastic limits of soil, thus to provide reliable data to classify soil types, calculate natural consistency and plasticity index. Digital display technology is adopted for this machine and automatic measurement can be performed.

**Features:** Excellent performance, reliable data, and high accuracy, clear direct readings, and convenient operation, high efficiency.

**Specification:**

1. Max. measuring range: 22mm
2. Resolution: 0.1mm
3. Nonlinear error: Superior than 2%
4. Contact sensitivity: >10M
5. Cone weight: 76g±0.1g
6. Cone angle: 30°±2°
7. Measuring Time: 5 Second
8. Working voltage: 200V±10% 50HZ
9. Continuous working period: 8 hours
10. Measurement : 240x158x320mm weight: 5.3kg

## STDS-1 Disc Type Liquid Limit Device



**Description:** The apparatus contains a brass pan, which is used to accommodate soil specimens, a base made from fine vulcanite, an impacting device, that is to say, a cam, which is used to set the distance between the pan and the base at 1 cm, a calculator and a groove handler. It is used to determine the liquid limit of the soil, to classify the soil, to provide soil consistency and plastic index needed in design and construction.

**Specification:**

1. Electric motor as power
2. Falling frequency of the disc: 120hit/min. Infall frequency of the disc: 120 strikes/min
3. Embedded a strike counter
4. Complies to ASTM D4318 The Standard Method of Soil Liquid Limit test.

## DW-1 Electric Strain Unconfined Compression Tester

DW-1



**Application:** determining Unconfined Compression strength of cohesive and semi-cohesive soils. The test is widely used to supply information needed for the design and construction of civil engineering structures.

1. Lift plate journey per revolution of the wheel: 0.2mm
2. Max. stroke of the lift plate: 30mm
3. Lifting speed: 1.8mm/min±15%
4. Max. axial load: 0.6KN
5. Diameter of the remolding cylinder: Φ39.1mm



### Plastic Limit Set

Supplied with 10 aluminium boxes, one mixing dish, one spatula, one glass plate and one 250ml graduated cylinder



### STPW-2 Water Content Tester

It is used in rapid determination of water content in sand, with features including high precision, quick results, small volume, light weight, and no need external power.

### STSC-10A Moisture Teller (Speedy Moisture Tester)



**Parameters:**

- 1.Capacity: 10g specimen
- 2.Division: 5mg
- 3.Differential ruler reading: 0-1g
- 4.Precision of the moisture content:  $\pm 0.2\%$
- 5.Temperature range: 75-160°C
- 6.Scale pan diameter: 100mm
7. Voltage: 220V 50HZ, power: 260W

**Features:** quick drying, high repeatability, precise result and easy operation.

### STDNY-2 Frozen Soil Compression Testing Machine



- 1.Rated pressure: 0-350Kpa
- 2.Rated displacement: 0-10mm
- 3.Internal pressure loading way: manual
- 4.Displacement test point: 4 point outside of specimen
- 5.Working voltage: AC220V $\pm 10\%$

### STSC-100B Moisture Teller(Speedy Moisture Tester)



**Description:** The speedy moisture tester measures specimen weight before and after drying, then get percentage of water in the specimen. It is mainly composed of a balance and a far IR drying oven.

- 1.Capacity:110g
- 2.Division:5mg
- 3.Repeatability: 0.2%
- 4.Readability: 0.02%
- 5.Temperature range: room temperature-200°C
- 6.Temperature accuracy:  $\pm 1^\circ\text{C}$
- 7.Dry by halogen lamp
8. Percentage of moisture and dry weight, percentage of moisture, humidity can be tested
9. AC 220V 50HZ, power around 1W(heating power max 480W)

### STZLY-1 Soil Tensile Stress Testing Machine



- 1.Max. horizontal shear force: 2000N
- 2.LCD display
- 3.Sheer speed: 0.01-3mm/min.
- 4.Working voltage: AC220V $\pm 10\%$

## STLQ-1 Pavement Material Strength Tester



**Application:** the pavement material strength tester is applied to perform unconfined strength test, CBR test, Marshall test, rebound modulus test, cleavage strength test on pavement materials.

**Specification:**

1. Max. rated load: 100KN
2. Max. rise distance of the plate of the lead screw: 200mm
3. Controllable velocity: High-speed: 50mm/min  
Low-speed: 1mm/min
4. Rating of machine: JW7134 550W, 380V, 1400RPM

Feature: Stainless steel working table

## STLQ-3 Digital Pavement Material Strength Tester



**Application:** the pavement material strength tester is applied to perform unconfined strength test, CBR test, Marshall test, rebound modulus test, cleavage strength test on pavement materials.

**Specification:**

1. Max load: 100KN
2. Stability:  $\pm 0.5\%$
3. Precision:  $\pm 1\%$
4. Allowed overload: +30% long-time overload not recommended
5. Display speed: 20times/second
6. Scanning speed: 100times/second
7. Lifting speed: stepless speed variation

**Features:** Stainless steel working table; ABS plastic control cabinet.

## STLQ-3A Digital Pavement Material Strength Tester



**Application:** the pavement material strength tester is applied to perform unconfined strength test, CBR test, Marshall test, rebound modulus test, cleavage strength test on pavement materials.

**Specification:**

1. Max load: 100KN
2. Stability:  $\pm 0.5\%$
3. Precision:  $\pm 1\%$
4. Allowed overload: +30% long-time overload not recommended;
5. Display speed: 20times/second
6. Scanning speed: 100times/second
7. Lifting speed: stepless speed variation

**Features:** Stainless steel working table; ABS plastic control cabinet.

## STLQ-5 Microcomputer Control Pavement Material Strength Tester



Max load: 100KN

**Function:** the pavement material strength tester is applied to perform single axial compression test, bending test, unconfined strength test, CBR test, Marshall test, rebound modulus test, cleavage strength test on pavement materials.

**Feature:** PC control, with refrigerating and heating function, total stainless steel production inside, High quality spraying plastics outside.

## STCBR-1 CBR Tester

### General description

The machine features a rigid two-column frame with upper crossbeam, which can be adjusted in height and locked in position with locknuts. The drive force is provided by an linkage of motor, worm and worm wheel housed in the base cabinet, which also accommodates the motor and the electric panel. Can operated both by motor and manual handle.

### Specification

1. Max. load: 30KN capacity.
2. Test speed: 1 mm/min (BS model) or 1.27 mm/min (ASTM/EN model)
3. Size of the penetration rod: Dia. 50×100mm

### Packing:

Main frame(mm): 560×450×1080

Controller(mm):570×490×330



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Industrial Products  
(XK07-003-00014)

## STCBR-3 Digital CBR Tester

### General description

The machine features a rigid two-column frame with upper crossbeam, which can be adjusted in height and locked in position with locknuts. The drive force is provided by an linkage of motor, worm and worm wheel housed in the base cabinet, which also accommodates the motor and the electric panel. Can operated both by motor and manual handle.

### Specification

1. Max. load: 30KN capacity.
2. Test speed: 1 mm/min (BS model) or 1.27 mm/min (ASTM/EN model)
3. Size of the penetration rod: Dia. 50×100mm

### Packing:

Main frame(mm): 390×500×870

Controller(mm):330×350×300



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## CBR mould and accessories



Supplied with one mould(diameter 152mm and height 177.8mm), one dial gauge(10x0.01mm), one tripod, one spacer disc with T handle, one swell plate(1.1kg), and 8 split surcharge weights(total weight 9.08kg).

Rust proofing treatment.



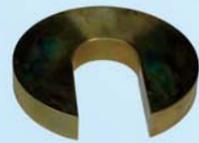
CBR Cylinder Mould with base and collar



Spacer disc



Perforated plate



Slotted Surcharge Weight



Annular Surcharge Weight



Gauge Holder



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### STQJ-2 Standard Portable Light Compactor

Weight of the hammer(rammer weight):2.5Kg  
Diameter of the hammer:50mm  
Drop:300mm  
Dimension of the compaction mould:Φ100×127mm  
Finish: corrosion resistant

### STZJ-1 Heavy-duty Portable Compactor(Special)

Weight of the hammer(rammer weight):4.5Kg  
Diameter of the hammer:50mm  
Drop:450mm  
Dimension of the compaction mould :Φ152×170mm  
Finish: corrosion resistant



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### STQJ-3 Standard Portable Light Compactor

Weight of the hammer(rammer weight):2.5Kg  
Diameter of the hammer:50mm  
Drop:300mm  
Dimension of the compaction mould:Φ100×127mm  
Finish: corrosion resistant

### STZJ-2 Heavy-duty Portable Compactor(Special)

Weight of the hammer(rammer weight):4.5Kg  
Diameter of the hammer:50mm  
Drop:450mm  
Dimension of the compaction mould :Φ152×170mm  
Finish: corrosion resistant

## STDJ-3 Automatic Compactor (Middle one blow)

**Description:** This machine automatically compact specimens, eliminating the laborious hand compaction method. The height and weight of the rammer are adjustable to suit test requirements. The rammer travels across the mould and the table rotates the mould in equal steps on a base that is extremely stable, the table also pushes forward and pulls back the mould. Compaction cycle: the mould is pushed forward and rotated, getting six blows at the side in different directions; then pulled back and got one blow in the middle. The number of blows per layer can be set at the beginning of the test.

### Specification

1. Rammer: Circular faced, 50 mm dia, adjustable to 2.5 kg and 4.5 kg weight.
2. Drop: Adjustable to 300 mm and 450 mm
3. Motor: 370W, 1400rotate/min.
4. Dimensions 380×640×1350 mm
5. Package weight: 260 kg

**Features:** pre-set blow pattern ensures even compaction, base plate can automatically pull and push, one blow in the center



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Industrial Products  
(XK07-003-00014)

## STDJ-3A Digital Multifunction Electric Portable Compactor (Middle one blow)

**Description:** This machine automatically compact specimens, eliminating the laborious hand compaction method. The height and weight of the rammer are adjustable to suit test requirements. The rammer travels across the mould and the table rotates the mould in equal steps on a base that is extremely stable, the table also pushes forward and pulls back the mould. Compaction cycle: the mould is pushed forward and rotated, getting six blows at the side in different directions; then pulled back and got one blow in the middle. The number of blows per layer can be set at the beginning of the test.

### Specification

1. Rammer: Circular faced, 50 mm dia, adjustable to 2.5 kg and 4.5 kg weight.
2. Drop: Adjustable to 300 mm and 450 mm
3. Motor: 370W, 1400rotate/min.
4. Dimensions 380×640×1350 mm
5. Package weight: 260 kg

**Features:** ABS plastic vertical control cabinet. Pre-set blow pattern ensures even compaction, base plate can automatically pull and push, one blow in the center



CE

Manufacturing License for China  
Industrial Products  
(XK07-003-00014)

## STDJ-4A Enclosed Automatic Compactor (Middle one blow)

**Description:** This machine automatically compact specimens, eliminating the laborious hand compaction method. The height and weight of the rammer are adjustable to suit test requirements. The rammer travels across the mould and the table rotates the mould in equal steps on a base that is extremely stable, the table also pushes forward and pulls back the mould. Compaction cycle: the mould is pushed forward and rotated, getting six blows at the side in different directions; then pulled back and got one blow in the middle. The number of blows per layer can be set at the beginning of the test.

### Specification

1. Rammer: Circular faced, 50 mm dia, adjustable to 2.5 kg and 4.5 kg weight.
2. Drop: Adjustable to 300 mm and 450 mm
3. Motor: 370W, 1400rotate/min.
4. Dimensions 380×640×1350 mm
5. Package weight: 260 kg

**Features:** Enclosed type, good sound-proofing, Microcomputer control, ABS plastic vertical control cabinet. Pre-set blow pattern ensures even compaction; base plate can automatically pull and push, one blow in the center



## STTM-3 Multifunctional Sample Extruder

Specimen can be stripped:  $\Phi 100$ ,  $\Phi 101.6$ ,  $\Phi 102$ ,

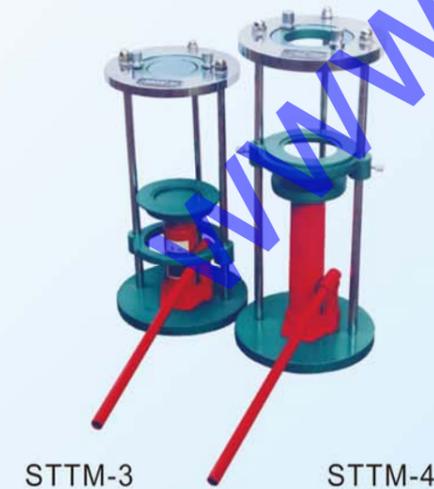
$\Phi 150$ ,  $\Phi 152$  (mm)

## STTM-4 Multifunctional High Sample Extruder

Specimen can be stripped:  $\Phi 100$ ,  $\Phi 101.6$ ,  $\Phi 102$ ,

$\Phi 150$ ,  $\Phi 152$  (mm)

Feature: The stroke of the jack: 250mm



STTM-3

STTM-4

### STDT-2 Universal Electric Extruder 150KN



Specimen can be stripped:  $\Phi 100$ ,  $\Phi 101.6$ ,  $\Phi 102$ ,  
 $\Phi 150$ ,  $\Phi 152$  (mm) (mm)  
 Max. axial output load: 150KN  
 Max. Stroke: 230mm  
 Lift speed: 450mm/min

### STM-2 Universal Electric Hydraulic Extruder 150KN (Overload Protection)



Stainless steel working table, overload protection  
 Automatic off load when overload  
 Size of sample:  $\Phi 100$ ,  $\Phi 101.6$ ,  $\Phi 102$ ,  $\Phi 150$ ,  
 $\Phi 152$  (mm)  
 Max. axial output load: 150KN  
 Piston stroke: 250mm  
 Working voltage: AC380V 50HZ

### STM-3 Universal Electric Hydraulic Extruder 300KN (Overload Protection)



1. Stainless steel working table, overload protection
2. Automatic off load when overload
3. Size of sample:  $\Phi 100$ ,  $\Phi 101.6$ ,  $\Phi 102$ ,  $\Phi 150$ ,  
 $\Phi 152$  (mm)
4. Max. axial output load: 300KN
5. Piston stroke: 250mm
6. Working voltage: AC380V 50HZ

### STTTQ-2 Electric Thin Walled Extruder



**Application:** It used to extrude the soil specimens from thin walled sampler or sand sampler.

## STM-1000 Unconfined Specimen Moulding and Extruding Machine



CE

1. Max. axial power: 600KN
  2. Rise speed: 140mm/min.
  3. Down speed: 140mm/min.
  4. Max. extruding height: 240mm
- Motor power: 380V 750W

## STYY-1 Digital Surface Vibration Compactor



CE

1. Power: 0.75~1KW
2. Vibration frequency: 45~50HZ
3. Range of vibration force: 2.5~4.2KN

## STZM-1 Vibration Table Method Max. Dry Density Tester



CE

**Application:** This instrument uses the vibration table method to determine the max. dry density of the large grain soil with coherent freely draining water.

1. Area of the vibration table: 600×600mm
2. Load bearing of the vibration table: >250kg
3. Vibration frequency: 50HZ 60HZ

## STZSJ-01 Semirigid Base Vibration Forming Compactor



**Application:** This instrument uses the vibration compaction method to form kinds of the specimens, including the cylinder specimens used in the unconfined compressive strength test, indirect tensile strength test and the compressive modulus of resilience.

1. Power: Three phase 380V, 5.5KW
2. Static pressure: 1900N
3. Exciting force: 6800N
4. Vibration frequency: 30HZ

## STZSJ-1 Semirigid Base Vibration Forming Compactor



**Application:** This instrument uses the vibration compaction method to form kinds of the specimens, including the cylinder specimens used in the unconfined compressive strength test, indirect tensile strength test and the compressive modulus of resilience.

1. Power: Three phase 380V, 5.5KW
2. Static pressure: 1900N
3. Exciting force: 6800N
4. Vibration frequency: 30HZ

Patent product, approved on provincial level.

## STHT-150 Resilience Modulus Test Apparatus



1. Lever ratio: 10: 1
2. Bearing plate: Diameter 50mm; Height: 8mm

## STGHX-A Hot Air Circulation Oven



1. Working temperature: room temperature: +10--250°C, free setting.
2. Temperature uniformity:  $\pm 2.0\%$
3. Precision:  $\pm 1^\circ\text{C}$
4. Air course: Double, laterally cyclic
5. Inside material: stainless steel
6. Heater: Electric Far IR SS heater
7. Insulating material: 100K high density aluminum silicate fiber
8. Temperature control: PID temperature controller, LED display, keyboard setting, automatic constant temperature
9. Temperature probe: SS PT100
10. Safety protection: short circuit protection, open circuit protection, overload protection, earthing protection
11. Power: 4.5KW

## STHX-A Digital Display Constant Temperature Convection Oven



1. Temperature range: 50-300°C
2. Accuracy:  $\pm 1^\circ\text{C}$
3. Heater: 2 groups
4. Perspective window to look inside
5. Working voltage: AC220V ,AC380V
6. Inner Size:
  - STHX-1A 450×450×350mm 76L
  - STHX-2A 550×550×450mm 136L
  - STHX-3A 500×600×750mm 225L
  - STHX-4A 800×800×1000mm 640L

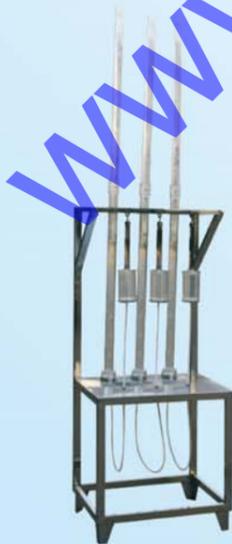
## STZK-82 Vacuum Drying Oven



CE

1. Electric power: AC220V 50HZ
2. Input power ( W ) : 250
3. Temperature control range(°C): RT+10~200
4. Wave range(°C): ±1
5. Vacuity: 133Pa
6. Material of the liner: cold rolling plate
7. Size of the liner ( mm ) : 300×295×275
8. Outside size ( mm ) : 585×472×450

## STMGS-1 Capillary Water Rise Height Tester



**Application:** Used to estimate possibility of roadbed soak and soaking degree.

**Feature:** Total stainless steel frame

## STXD-1 Relative Density Meter



It's applied to test minimum void ratio of non-cohesion soil, whose granular diameter is no bigger than 5mm, thus to provide data for relative density calculation.

Big metal barrel volumn: 250cm<sup>3</sup> (dia48x13.9mm)

Small metal barrel volumn: 1000cm<sup>3</sup>  
(dia100x127mm)

Hammer weight: 1.25kg

Drop: 15cm

Hammer foundation: diameter 45mm

## STXD-2 Electric Relative Density Meter(Improved)

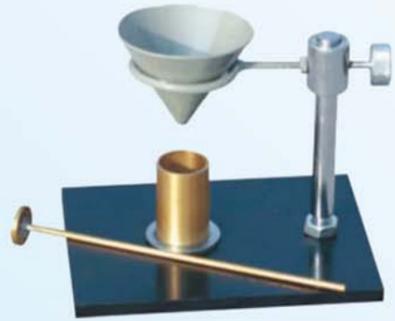


**Application:** It's applied to test relative density of non-cohesion soil, whose granular diameter is no bigger than 5mm

**Specification:**

1. Determine soil max density and minimum void ratio
2. Vessel size: Φ5×12.7cm
3. Weight of the hammer: 1.25Kg 32times/min
4. Working voltage: AC220V
5. Dimension: 400×570×990mm
6. Package weight: 90kg

## STPZL-1 Free Swelling Rate Meter



Soil measuring cup: 10ml, inner diameter: 20mm

Stainless funnel: top diameter: 50-60mm

Bottom diameter: 4-5mm

The mixer includes a straight bar and a disc with an aperture.

## STFSJ-4 Soil Grinder



Voltage: 220V

Power: 180W

Rotation: 1400rpm

Inner diameter of grinding cell: 102mm

Aperture size of sieves: 0.5, 1.0, 1.5mm

## STFSJ-5 Large Pulverizing Machine



1. Capacity: 16dm<sup>3</sup>

2. Diameter of the broken soil sample: 0.1-0.7mm

3. Timing range: 0-4min

4. Engine power: 4KW

5. Rotation speed of the blade: 1440 rotate/min.

6. Installation size: 570×790mm

## STDRB-1 Electric Hot Plate



1. Highest temperature: 350°C

2. Power: 2.4KW

3. Working size: 450×300mm

## STSYL-1 Sandbath Electric Stove



- 1.Voltage: 220V
- 2.Frequency: 50HZ
- 3.Working current: 11A, 14.6A
- 4.Inner volume: 0.016M<sup>3</sup>
- 5.Standard power: 2.4KW, 3KW

## Vacuum Air Extractor Device



It is used for testing soil vacuum saturation

Container dimension:  $\Phi 280\text{mm} \times 230\text{mm}$

Vacuum pump: 1/S, 10pa, 220V

Vacuum pressure gauge: -0.1Mpa

## Siphon Cylinder



Used to test specific gravity of soil particle, suit for partical size which no less than 5mm, and the weight of 20mm particle size should be no less than 10% of total weight of soil sample.

It consists of siphon pipe and siphon cylinder.

## Expansion Apparatus



**Application:** it is used to test unidirectional expansion of immersed natural soil and compacted soil specimen under no-loading but confining stress, water content after stabilization, and max. stress caused by expansion.

**Specification:**

1. Cutting ring: dia58×35mm
2. Soil specimen: dia58×20mm
3. Soil pusher height: 15mm

## Shrinkage Testing Meter



**Application:** it is used to test shrinkage deformation of cohesion soil, thus to determine shrinkage index, shrinkage limit and bulk shrinkage.

**Specification:**

1. Soil specimen: dia61.8x20mm
2. Perforated plate: holes area more than 50% of total area
3. Measuring board: dia10x4 mm
4. Soil pushing block: dia61.8x20mm

## STTP-1 Natural Slope Angle Tester



The natural slope angle tester is applied to determine max. angle between horizontal plane and natural slope of non-cohesion soil which has been fully air dried and then immersed in water.

Disc diameter: 100mm, 200mm

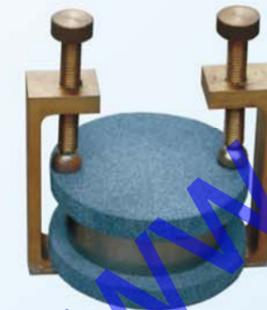
Disc lift: 65mm

Dimension: 320mmx26mmx330mm

## Tm85 Soil Hydrometer



Blister volume (Vb): 62.37cm<sup>3</sup>  
 Distance from center of blister to lowest reticle (Lo): 9.10cm  
 Length of staff: 13.50cm  
 Settling height calibrating formula of special graduated cylinder:  
 $L = a - bR$   
 $a = 21.50, b = 0.273,$   
 L (correct value of settling height): cm,  
 R: reading value of hydrometer.



Frame Saturator  
Cutting ring: dia61.8x20mm



Laminated Saturator  
Cutting ring: dia61.8x20mm  
Supplied with 5 pieces of cutting rings



Standard Sieves with Stainless Steel Frame



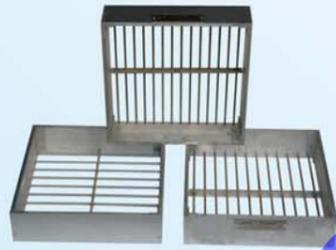
Standard Sieves with Chromeplated Iron Frame



Standard Sieves with Brass Frame



Soil Sieve Set  
Aperture size: 0.075mm, 0.1mm, 0.25mm, 0.5mm, 1mm, 2mm, 5mm, 10mm, 20mm



Grid Sieve

2.5mm	12.5mm
4mm	16mm
5mm	20mm
6.3mm	25mm
8mm	31.5mm
10mm	40mm



Small Scoop



- ① Mortar Spatula: 200x24mm
- ② Cutting Knife: 180x25mm
- ③ Cutting Knife: 150x22mm
- ④ Trimming Knife: 160x22mm
- ⑤ Trimming Knife: 120x20mm
- ⑥ Spatula: 180x36mm



Scoop



Proving Ring

1KN	2KN
5KN	30KN
50KN	100KN
200KN	300KN
500KN	1000KN
2000KN	3000KN
5000KN	10000KN



Wire Saw



Sample Tray  
Big size: 490mmx360mm  
Medium size: 380mmx270mm  
small size: 260mmx180mm



100ml    50ml  
Soil Pycnometer



Desiccator  
Diameter 300mm  
Diameter 240mm



Mortar  
Diameter: 100mm  
Diameter: 120mm  
Diameter: 150mm  
Diameter: 190mm



**Aluminium Box**  
Dia70×38mm  
Dia55×28mm  
Dia40×20mm



**Stainless Steel Cutting Ring**  
Dia50.46×50mm  
Dia70×52mm  
Dia61.8×20mm  
Dia61.8×40mm  
Dia79.8×20mm



**Stainless Steel Container**

Φ155×95mm  
Φ145×80mm  
Φ125×75mm



**Dial Gauge**  
0-1mm/0.001mm



**Dial Gauge**  
0-10mm/0.01mm



**Dial Gauge**  
0-30mm/0.01mm



**Dial Gauge**  
0-50mm/0.01mm



**Dial Gauge**  
0-100mm/0.01mm

## STZSZ-1 Four-bladed Vane Shear Testing Apparatus



**Application:** This apparatus is used to determine the natural shearing strength of the saturated soft clay. Strength testing results of some soft clay with high sensitivity subjects to be improper and rest on sampling. This apparatus can obtain more precise strength indication. It is recommended to be used together with drilling equipments as four bladed vane shear testing apparatus measures strength by drilling holes. It is able to test clay whose depth less than 30 meters.

**Specification:**

1. Size of the four-bladed vane:  $\text{Ø}75\text{mm} \times 150\text{mm}$ ,  
 $\text{Ø}50\text{mm} \times 100\text{mm}$
2. Torquemoment of the steel ring: 80N.m
3. Precision of the torquemoment: 0.55 N.m
4. Guide stem:  $\text{Ø}30\text{mm} \times 1040\text{mm}$
5. Size of the machine: 430mm×910mm×220mm (L×W×H)
6. Weight: 40kg

**STCT-1 Light Dynamic Penetration Testing**

**Apparatus**

- 1.Weight of the hammer:10Kg±10g
- 2.Drop:500mm
- 3.Max. penetration depth: 600mm
- 4.Penetration angle:60°
- 5.Max diameter of penetration cone: 40mm

**STBG-2 Standard Heavy-duty Penetration**

**Testing Apparatus**

**Apparatus**

- 1.Weight of the hammer:63.5Kg
- 2.Drop:760mm
- 3.Penetration head: Φ74×60



**STXTJ-2 Field Elastic Modulus Tester**



- 1.Jack: 10T
  - 2.Proving ring: 60KN
  - 3.Beam: 1.5m
  - 4.Bearing plate: dia.300mm
- Weight: 40Kg

**STCBR-2 In-situ CBR Test Apparatus**



**Parameters:**

1. Bearing capacity of hydraulic jack:100KN
- 2.Measure range of the dynamometer:60KN
- 3.Diameter of penetration rod:Φ50×200mm

**STYC-1 Field Loading Plate Test Apparatus**



**Application:** It's mainly used for directly determine roadbed soil, full floor road surface material and road surface structure layer material's rebound modulus on the road surface.

1. Max. Load: 60KN
2. Timing range of the bearing plate:Φ300mm
3. Stroke of the jack: 120mm

Manufacturing License for China  
Industrial Products  
(XK07-003-00014)

## STLWC-2 Light Drop Weight Tester



### 1. Application:

It used to test all kind of soil and rock in road construction.

Testing range:  $10\text{Mpa} \leq \text{EVD} \leq 225\text{Mpa}$

Test depth: 0-500mm

### 2. Loading device:

Loading device weight: 15kgs

hammer weight: 10kg

Max. impact force: 7.07KN

Duration of impact: 18 ms

### 3. Load plate:

Weight: 15kgs

Diameter: 300mm

Thickness: 20mm

### 4. Settlement measuring monitor:

Settlement measuring range: 0.10 – 2.0 mm

Storage capacity: 2000 groups

Weight: 1kg

Power: 3.7V/3000mAh lithium ion battery

## STK-30 Plate Bearing Tester



Patent product

**Application:** Plate Bearing Testing Apparatus used to estimate bearing capacity of road base or ground base, which is filled and compacted after coarse and fine grained soil, also can used to count deformation modulus of even groundsill.

### Specification

1. Load plate: 300mm
2. Hydraulic jack max. load: 5T
3. Hydraulic jack journey: 120mm
4. Span: 3000mm
5. Electric oil pump rated pressure: 70Mpa
6. Pressure range: 0-25Mpa
7. Displacement range: 0-10mm
8. Use engine oil: number 15 engine oil,
9. Use temperature environment: 5°C-45°C

## STK-50 Plate Bearing Testing Apparatus



**Application:** Plate Bearing Testing Apparatus used to estimate bearing capacity of road base or ground base, which is filled and compacted after coarse and fine grained soil, also can used to count deformation modulus of even groundsill.

### Specification

1. Load plate: 2500 cm<sup>2</sup> 1000cm<sup>2</sup>
2. Hydraulic jack max. load: 50T
3. Hydraulic jack journey: 80mm
5. Electric oil pump rated pressure: 63Mpa
6. Pressure range: 0-500KN

## STCLD-1 Static Penetration Testing Apparatus



**Application:** This machine is used to perform static penetration test, and vane test together with four-bladed vane shear testing apparatus. It's convenient in data exchange. The machine is light, easy to operate, with simple structure and stable performance. No need to be connected to external power.

1. Penetration capacity: 20-30KN
2. Penetration speed: 0.8-1.2m/min
3. Winding speed: 4-5m/min
4. Diameter of probe rod: 25-28mm
5. Adapt probe: 10cm<sup>2</sup>
6. Four-bladed vane probe size: 50X100mm (separately equipped)
7. Weight of total machine: 180kg

## STCTC-2 CPT Vehicle



1. Full set include running gear, anchorage system, penetration system and testing system.
2. Transport: Four wheel manual drive
3. Drive type: rear drive
4. Turning radius: no higher than 4m
5. Power force: electrical starting diesel engine
6. Power: no lower than 22Hp, rotate: 2200-2600RPM
7. Anchorage type: Automatic rack type anchorage
8. Penetration speed: 0.8-1.2m/min; rated penetration power: 200KN
9. Pull out speed: 2.5m/min; pull out power: 220KN
10. Working medium: 68# hydraulic oil
11. System oil pressure: 14Mpa
12. Capacity of oil tank: 100L
13. Penetration type: fixture blocks type press and pull out
14. Running speed: 25-40Km/h
15. Working temperature: -10-40°C

## STFJ-1 Reaction Force Framework



**Application:** Use for molding of the unconfined specimens

1. Max. Load: 400KN
2. The up and down plate is made of steel plate.

## Sand Density Testing Apparatus



1. Diameter:  $\Phi 100$ ,  $\Phi 150$ ,  $\Phi 200$
2. Complete sets: pouring cylinder, calibration container and metal tray.

## STLS-2 New Pavement Moisture Permeameter



**Application:** It's used to determine asphalt pavement's penetration of moisture, pavement penetration of moisture in specific time under stated variable head. Used for field investigation and research in road construction and road maintenance department.

1. Diameter of the base:  $\Phi 150$ mm
2. Volume of the measuring cylinder: 550ml (precision: 10ml)
3. With pressure board

## STHZ-15 Concrete Core Drilling Machine



Max. drilling diameter:  $\Phi 150\text{mm}$

Max. drilling depth: 400mm

Motor power: 2KW

Motor's voltage: AC220V

## STHZ-15 Multifunctional Concrete Core Drilling Machine



**Application:** it is multifunctional in performing not only coring but also cutting and grinding cores.

**Parameters:**

1. Max. drilling diameter:  $\Phi 150\text{mm}$
2. Max. drilling depth: 400mm
3. Cutting and grinding in lateral direction
4. Manual feeding
5. Diamond drilling head and blade
6. Motor power: 2KW
7. Motor's voltage: AC220V

## STHZ-20 Concrete Core Drilling Machine



**Application:** the core drilling machine which combines high speed cutting technology and thin walled diamond bits, is widely applied to drill and core in building works, equipment installation projects and construction inspection projects.

**Technical parameters:**

1. Max. drilling diameter:  $\Phi 200\text{mm}$ ;
2. Max. drilling depth: 400mm (up to 1500mm by using extension bar);
3. Motor power: 3.3KW
4. Principal axis speed: 800-1200 r.p.m
5. Weight: 140Kg

**Features:** double posts structure, YAMAHA motor as the driving force; no need screw fixation; machine is mounted on 3 wheels for ease of movement; reliable and convenient in operation. The core drilling machine is able to drill and cut high strength concrete, with high efficiency, precise hole position, smooth wall of hole and cored specimen, small vibration and no damage to construction.

## STBP-100 Concrete Cylinder Capping Device



**Application:**

It is mainly used in the road construction, building construction, airport as well as some main inspection Lab. It suit with STHZ-15 and STHZ-20 concrete drill machine.

1. Max concrete cylinder diameter: 150mm
2. Movement : manual
3. Vertical degree:  $\leq 0.04$

**Feature:** Simple structure, Light and flexible, after capping, it is in flat surface, standard size, high vertical degree.

### STBC-1 Soil Penetrometer



Main specification:

- 1.Hammer weight: 2.5kg
- 2.Hammer height: 30cm
- 3.Penetration needle: 1cm<sup>3</sup>
- 4.weight of apparatus: 3.6kg

### STYZ-1 In-situ Soil Sampler



Sampling diameter: dia.50.46mm

Height of soil sampler: 50mm

### STLX-1 Soil Auger



Application: it used to sampling soil or bore a hole of 1-5m depth.

Specification:

- 1.Bit: 50X200mm
- 2.Drill rod: 5m
- 3.Drill rod with scale
- 4.Weight: 16kg

### STQTQ-1 Stainless Steel Soil Sampler



1.Diameter: 38mm

2.Length: 50cm

3.Together with extruding block

## STZJ-1 Drilling Machine



CE

1. Drilling depth: 100m
2. Finally hole diameter: 75mm
3. Drilling rod diameter: 42mm
4. Rated rotary speed: 1500 rpm
5. Rated pressure: 8Mpa
6. Max pressure: 12.5Mpa
7. Displacement: 12.5Mpa
8. Max make and break allowable pressure: 1.5Mpa
9. Continuous pressure of water pump: 0.7Mpa



Triangle drill tower



Casing tube of core barrel



Drilling rod 42mm



Galvanized diamond bit 110  
Galvanized diamond bit 91



Convex bend frame bit 110mm  
Convex bend frame bit 130mm  
Dense drilling bit 91mm  
Dense drilling bit 150mm



Automatic drop hammer 63.5KG



Dynamic penetration head



Thread-changing joint



Core barrel connector



Bolted connector



Standard penetrator



Φ108 soil sampler



Pulling fork



Padding fork



Free pliers



Soil specimen box 108x300



Clamp for casing tube 146mm

## STPSY-3 Electrical Sand Tester



**Application:** Detection macro-roughness and sliding resistance property of road surface.

1. sand funnel capacity: about 70 mm
2. sand funnel bottom opening width 2.7 mm
3. Sanding belt size: 50 mm
4. Moving speed of the sand funnel: about 1 mm/second
5. Moving range of the sand funnel: about 290 mm
6. Outer dimension: 470×160×140 mm
7. Motor Power: 12V, 3.3A

## STBM-2 Pendulum Friction Coefficient Meter



1. Weight of pendulum: 1500g
2. Moment of pendulum's barycenter: 410mm
3. Face-on static pressure on pavement: 22.2N
4. Distance between edge and center of pendulum: 508mm
5. Pendulum's sliding distance on pavement: 126mm

## Pavement Resilient Modulus Testing Apparatus



Patent product

**Application:** determine resilient modulus value and evaluate pavement overall strength.

**Specification:**

1. Lever ratio: 2:1
2. Indication resolution: 0.01mm
3. Length: 3.6m, 5.4m, 7.2 m
4. load: 200g, deflection <0.05mm

## STPZ-3 Continuous Eight-wheel Viameter



**Application:** widely applied in construction inspection and road maintenance acceptance, and providing reliable analytical pavement data for teaching, design and research institutes.

**Specification:**

1. Benchmark measuring length: 3m
2. Error: 1%
3. Environment temperature shall be between -10°C and +40°C
4. Measurement: 4061×800×600mm
5. Elongation: 4061mm compression: 2450mm
6. Apparatus weight: 235kg
7. Controller weight: 6kg

**Features:** advanced micro-processing systems and large-scale integrated circuit technology are adopted in the apparatus, continuous measurement, automatic calculation, display and print standard deviation of pavement roughness; with high accuracy and speed while significantly reducing the labor intensity and improve working efficiency.

## STML-20S Digital Display Concrete Anchor Tensiometer



1. Rated tensile force of cavity jack: 200KN
2. Max. piston stroke: 100mm
3. Min. Resolution: 0.1KN

**Features:** digital display, automatically save peak value

## STHJ-10 Cohesional Strength Tester



The apparatus is used for testing Cohesional strength of face brick.

1. Max. tension power: 10KN
2. Journey of piston: 10mm
3. Weight: 3Kg
4. Precision grade: 1.0F.S
5. Power: 9V high performance lithium battery

## JSS30A Digital Display Convergent Gauge



1. Measurement range: 0.5m-10m or 0.5m-15m
2. Resolution: 0.01mm
3. Digital display stability: less than 0.01mm within 24 hours

4. Working voltage: 1.55V Silver oxide button batteries

5. Dimension: 410mm × 100mm × 35mm

6. Weight: 0.9kg

**Features:** novel structure, easy operation, high accuracy, small size, light weight and good sealing

## Mobile Laboratory

Covered area: 570(L)x230(W) cm or 1200(L)x230(W)  
Equipped with one 1.5HP air conditioner and one working table.



## STLFY-1 Bridge Crack Detector



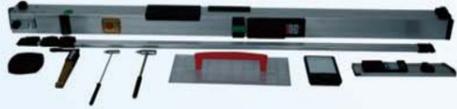
1. Measuring height: 5m, can adjust
2. Equip pc, infrared probe, can take crack photo at any time.



**Micro Penetrometer**  
Penetration depth:450mm



Dial Torque Spanner



Two meter engineer quality inspection ruler  
(With 8 kind accessories)



Three meter planeness ruler



NB-1 Slurry Hydrometer

NA-1 Slurry Sand Content Meter

1006 Slurry Viscometer

## Crack Measurement Microscope



A high quality microscope designed for measuring crack widths in concrete members, masonry walls and other structures.

Magnification: 40x

Pocket type, with light source



Analogue thermometer  
Temperature range: 0-150°C



Pocket Thermometer  
Temperature range: -50°C-+300°C  
Precision:  $\pm 0.1^\circ\text{C}$



Laser Thermometer  
Temperature range: -30°C-+300°C  
Precision:  $\pm 1^\circ\text{C}$



Digital Thermometer  
Temperature range: -50°C-+750°C  
Precision:  $\pm 1^\circ\text{C}$



Thermohygrometer



Clinometer

## Integrated Digital Voice Hammer



1. Testing pressure range: 10-60Mpa
2. Standard impact energy: 2.207J
3. Stroke of impact hammer: 75 mm
4. Friction force of needle block:  $0.5 \pm 0.8\text{N}$
5. Curvature radius:  $25 \pm 1\text{mm}$
6. Size: Dia.54X278mm
7. Weight: around 1Kgs



**ZC3-A Concrete Test Hammer**

Needle length:  $20.0 \pm 0.2$ mm  
Elastic pullback spring length:  $61.5 \pm 0.3$ mm  
Strike hammer stroke:  $75.0 \pm 0.3$ mm  
Caliberation value of anvil:  $80 \pm 2$



**ZBL-S220 Digital Display Rebound Hammer**

1. Pressure range: 10-60Mpa  
2. Impact function: 2.207J (0.225kgf.m)  
3. Stiffness of elastic pullback spring: 7.84N/cm  
4. Conformity error of indicator: less than 1%



**ZBL-U510 Ultrasonic Detector**

Measuring range: 0~629000is  
Resolution: 0.05is  
Sampling interval (period): 0.05is~400is, 14 adjustable settings  
Amplifier bandwidth: 10 kHz~250 kHz



**JY-XS600 Digital Corrosion Meter**

1. Testing electric potential:  $\pm 999$ mV;  
2. Precision:  $\pm 1$ mV;  
3. Distance between points: 1-100cm;  
4. Data saving volumn: 5400 testing areas/  
11000 testing points;  
5. Testing area: 8000m<sup>2</sup>.



**JY-8S Grid Scan Concrete Reinforcement Detector**

1. Testing range:  
1<sup>st</sup> measuring range: 6-90mm  
2<sup>nd</sup> measuring range: 7-180mm  
2. Reinforcing bar diameter withing range from 6 to 32mm  
3. Max error for reinforcing bar diameter:  $\pm 1$



**ZBL-F101 Crack Width Detector**

Magnification: 40 times  
Measuring range: 0.01mm ~ 2.00mm  
Minimum measuring unit: 0.01mm  
Estimate accuracy: 0.005mm

**STSJ-3 Laboratory Sieve Shaker**



CE

The Sieve Shaker is designed to accept up to 8×200mm diameter or 6×300mm test sieves and cover.

1. Oscillation: 221times/ min
2. Oscillation journey: 25mm
3. Peak attack times: 147times/min
4. Peak attack journey: 8mm
5. Continuous/intermittent operation
6. Working voltage: AC380V or 220V

The unit is fitted with a 0.37KW motor and built-in 99 minutes timer

Package Dimensions. 680×500×1090 mm

Gross Weight. Net: 130 kg.

**STSJ-4 Digital Display High Frequency Sieve Shaker**



CE

**Application:** Efficient design for accurate separation of materials. Accepts up to 8X200 mm and 6X300 mm diameter sieves, plus pan and cover.

**Technical parameters:**

1. Oscillation: 221times/ min
2. Oscillation journey: 25mm
3. Peak attack times: 147times/min
4. Peak attack journey: 8mm
5. Continuous/intermittent operation
6. Working voltage: AC380V or 220V

The unit is fitted with a 0.37KW motor and built-in 99 minutes timer

Package Dimensions. 700×520×1070mm

Gross Weight. Net: 150 kg.

Feature: with ABS vertical controller

## STSJ-4A High Frequency Sieve Shaker



CE

**Application:** The high frequency Sieve Shaker is mainly used to grading analysis of Non-cohesive grain soil materials.

**Specification:**

1. Vibration frequency: 42HZ
2. Vibration mode: Upper and down vibration
3. Vibration amplitude: 1.5 mm
4. Regular time: 0-60 min may choose
5. Vibrating motor power: AC220V, 25W
6. Choose standard analytical sieve specifications: 200\*50mm (9 level) or 300\*75mm (7level)

## STTJL-100 Soil Aggregate Analysis Meter



1. Motor: 1/4P
2. Shaking frame: allow 4 sets sieves, moving distance from up to down is 4cm; shaking speed is 30times/min.
3. Bucket: 8pcs, Dia.31.5 XH15.5cm, stainless steel production.
4. Sieves: 8sets, each set include Dia.10X H4cm 5pcs, aperture are 5, 2, 1, 0.5, 0.25mm

## STYS-2 Rock Crushing Index Determiner



1. All steel
2. Heat treatment
3. Diameter: 180mm

## Proportional Caliper Device



STZPZ-1

STZPZ-2

STZPZ-3

STXCJ-1 Fine Aggregate Grain Angularity Testing Meter

STXCZ-1 Fine Aggregate Fluidity Testing Meter



STXCJ-1



STXCZ-1

STJL-1 Coarse Aggregate Preparation Sample Splitter



STJL-1 Coarse Aggregate Preparation Sample Splitter



Slots: 8  
Slot width: 38, 64, 45mm

Slots: 10  
Slot width: 30, 25, 20mm



Slots: 12  
Slot width: 7, 15mm



## STMH-3 Los Angeles Splitter Abrasion Testing Machine



CE

ASTM C131, EN1097-2, AASHTO T-96

**Application:** The Los Angeles Abrasion Machine is used as a quality control tool for aggregates, including crushed rock, gravel and slag. The testing method determines the degradation when subjected to abrasion, attrition, impact and grinding.

**Technical parameters:**

1. Diameter x length=710 x 510 mm
2. Drum rotation speed: 30-33 rpm
3. Working voltage: AC380V or AC220V
4. Counter: 5 digits, adjustable, automatic shut-off; push-button reset and adjustment.
5. Set of 12 steel balls: 48mm, 390-445g;
6. Steel tray for specimen unloading

**Features:**

1. Heavy steel cylinder and base frame
2. Dust proof cover plate
3. Adjustable shelf positions
4. Safety stop button

## STMH-5 Enclosed Los Angeles Abrasion Machine



CE

ASTM C131, EN1097-2, AASHTO T-96

**Description:** The Los Angeles test is particularly noisy. Enclosed Los Angeles abrasion machine provides a special sound proof cabinet.

**Application:** The Los Angeles Abrasion Machine is used as a quality control tool for aggregates, including crushed rock, gravel and slag. The testing method determines the degradation when subjected to abrasion, attrition, impact and grinding.

**Technical parameters:**

1. Diameter x length=710 x 510 mm
2. Drum rotation speed: 30-33 rpm
3. Working voltage: AC380V or AC220V
4. Counter: 5 digits, adjustable, automatic shut-off; push-button reset and adjustment.
5. Set of 12 steel balls: 48mm, 390-445g;
6. Steel tray for specimen unloading

**Features:**

1. Heavy steel cylinder and base frame
2. Dust proof cover plate
3. Adjustable shelf positions
4. Safety stop button
5. Enclosed type with good sound-proofing.

## STDFA-3 Deval Abrasion Testing Machine



1. Voltage: 380V/3 phase

2. Steel ball: Dia.10mm

3. Rotation speed: 100RPM

4. Inner cylinder size: Dia.20x34cm

## STSD-2 Electric Sand Equivalent Shaker (Single tube)

## STSD-3 Electric Sand Equivalent Shaker (Double-tube)



STSD-2



STSD-3

CE

1. Stroke: 203±1.0mm

2. Rate: 180±2 strokes/min

3. Working voltage: AC220V±10% 50HZ

4. Test tube size: dia.32X420mm

5. Duration of oscillation: 0-30 second

6. Quiescence time: 0-20min

7. A timer stops the machine at the end of the test.

8. Dimension: 560x320x340mm

9. Weight: 53kg

### STSD-2 Electric Sand Equivalent Shaker (Equip protective cover)



CE

1. Stroke:  $203 \pm 1.0$ mm
2. Rate:  $180 \pm 2$  strokes/min
3. Working voltage: AC220V  $\pm 10\%$  50HZ
4. Test tube size: dia.32X420mm
5. Duration of oscillation: 0-30 second
6. Quiescence time: 0-20min
7. A timer stops the machine at the end of the test.
8. Dimension: 560x320x340mm
9. Wight: 53kg
10. Equip protective cover, safe, protect environment

### STJ-II Aggregate Impact Tester



1. Impact hammer weight:  $13.75 \text{kg} \pm 0.05 \text{kg}$
2. Height of the fall:  $380 \pm 5$ mm
3. Impact cup:  $102 \pm 50$ mm
4. Size of metal tamping rod with circular section: dia.10X230mm, the other end is semicircle
5. Size of metal cylinder: dia.75X50  $\pm 1$ mm

### STJM-3 Acceleration Grinder



CE

**Application:** The grinder is used to polish stone materials, evaluates their resistance to polish, and provides friction coefficient information in road pavement.

**Specification:**

1. Working voltage: 380V
2. Power of motor: 550W
3. Roadway wheel rotates speed: 320r/min
4. Rubber wheel is facing static pressure: 400N

### STYJL-1 Digital Display Methylene Blue Value Tester



**Parameters:**

1. Rotation speed: 0-600 rpm adjustable
3. Time period: 0-100 min
3. Voltage: 220V

## STYJL-2 Blue Value Determination Test Set for Fine Aggregates



CE

**Application:** Blue value test is applied to determine existence of expanding clay in fine aggregates and its content, by blue value MBV.

**Parameters:**

1. Rotation speed for the first time: 0-600 rpm adjustable
2. Rotation speed for the second time: 0-600 rpm adjustable
3. Time period for the first rotation: 0-99 min
4. Time period for the second rotation: 0-99 min
5. Voltage: 220V

## Standard Funnel



Used to test bulk density, compacting density and void ratio.

## Rock Funnel



## Unit Weight



## Mortar Comparator



## Filler Compaction Apparatus



This apparatus is used for the determination of the void content of dry compacted filler. The apparatus essentially consists of three components:

Specification:

1. Metal base size: 100 mm x 150 mm
2. Cylinder: 25 mm internal diameter
3. A plunger of a diameter allowing it to slide freely in the cylinder without lateral play.

## Saturated Surface Dry Mould and Tamping Rod



Used for testing bulk density, apparent density, dry density of aggregate by use slump cone method.

1. Mould size: Up diameter:  $\Phi 40\text{mm}$   
Below diameter:  $\Phi 90\text{mm}$
2. Height: 75mm
3. Size of tamping rod:  $\Phi 25\text{mm}$ , weight: 340g

## Jaw Crusher



**Application:**

Jaw crusher is used to crush various rocks with compression resistances, in the laboratory of metallurgical industry, mining, building materials and chemical industry etc.

**Parameters:**

1. Opening: 100x60mm;
2. Max. feeding size: 45mm;
3. Discharge opening: 6-10mm;
4. Capacity: 230-400kg/hour
5. Rotation speed: 1400 rpm
6. Power: 15.KW
7. Dimension: 355x330x378mm
8. Weight: 150kg

## Disk Crusher



1. Diameter of millstones: 150mm
2. Maximum particle size: less than 2mm
3. Discharge port particle size: 120-325 mesh
4. Productivity: 20kg/h
5. Power: 1.1KW
6. Out size: 600×714×425mm

## Test Sieve



- Complies to ASTM-E11/95  
200mm(8" )dia. 50mm height, 300mm (12" )dia. 60mm height.
1. Finest quality mesh;
  2. Double layer welded frame;
  3. Epoxy fillet technique is adopted recently to ensure smooth and uninterrupted flow of material through sieving medium.;
  4. Aperture size: perforated plate for aperture size bigger than 1.18mm Woven mesh for aperture size smaller than 1.18mm
  5. Frame thickness: double layer, 0.5mm/layer.

### Sand Sieve Specification:

0.075mm, 0.15mm, 0.6mm, 1.18mm, 2.6mm, 4.75mm, 9.5mm

### Stone Sieve Specification:

2.36mm, 4.75mm, 9.5mm, 13.2mm, 16mm, 19mm, 26.5mm, 31.5mm, 37.5mm, 53mm, 63mm, 75mm, 90mm

## Asphalt Concrete Aggregate Sieve



- Specification:** 0.075mm, 0.15mm, 0.3mm, 0.6mm, 1.18mm, 2.36mm, 26.5mm, 9.5mm, 13.2mm, 16mm, 19mm, 26.5mm, 31.5mm, 37.5mm, 53mm

## STLL-3 Automatic Asphalt Softening Point Meter (Ring and ball apparatus)



**Application:** The softening point is a fundamental property of asphalt.

### Parameters:

1. Measurement temperature accuracy:  $\pm 0.1^{\circ}\text{C}$
2. Automatically increase of temperature per minute:  $5^{\circ}\text{C}$
3. Timer accuracy: 1S
4. Steel ball weight:  $3.50 \pm 0.05\text{g}$ , diameter: 9.50mm
5. Temperature display:  $0.02^{\circ}\text{C}$
6. Water in the beaker is agitated by magnetic stirrer
7. The test is performed in duplicate under closely controlled conditions
8. Temperature control: Water is used as the bath medium for binders with softening points below  $80^{\circ}\text{C}$ . Above this temperature glycerol is used in place of water.

## STLL-4 Full Automatic Asphalt Softening Point Meter (Ring and ball apparatus)

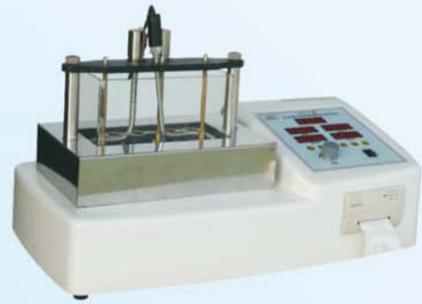


**Application:** The softening point is a fundamental property of asphalt.

### Parameters:

1. Measurement temperature accuracy:  $\pm 0.1^{\circ}\text{C}$
  2. Automatically increase of temperature per minute:  $5^{\circ}\text{C}$
  3. Timer accuracy: 1S
  4. Steel ball weight:  $3.50 \pm 0.05\text{g}$ , diameter: 9.50mm
  5. Temperature display:  $0.02^{\circ}\text{C}$
  6. Water in the beaker is agitated by magnetic stirrer
  7. The test is performed in duplicate under closely controlled conditions
  8. Temperature control: Water is used as the bath medium for binders with softening points below  $80^{\circ}\text{C}$ . Above this temperature glycerol is used in place of water.
- Features: ABS plastic frame, with infrared real-time monitor, automatically recording softening point temperature

## STLL-5 Infrared Ray Full Automatic Asphalt Softening Point Meter (Ring and ball apparatus)



CE

**Application:** The softening point is a fundamental property of asphalt.

**Parameters:**

1. Suitable for testing 4 samples simultaneously
  2. Real time monitor by infrared ray; record softening temperature and print data automatically;
  3. Temperature measurement precision:  $\pm 0.2^{\circ}\text{C}$
  4. Temperature rise:  $5^{\circ}\text{C}/\text{min}$
  5. Temperature display resolution:  $0.01^{\circ}\text{C}$
  6. Temperature control: Water is used as the bath medium for binders with softening points below  $80^{\circ}\text{C}$ . Above this temperature glycerol is used in place of water.
- Feature: ABS plastic overall casing.

## STLL-7 Full Automatic Asphalt Softening Point Meter (Ring and ball apparatus)



CE

**Application:** The softening point is a fundamental property of asphalt.

**Parameters:**

1. Power Supply Voltage: AC 220V (permissible error of  $-5\% \sim +10\%$ ), 50Hz
2. Temperature Range:  $5^{\circ}\text{C} \sim 90^{\circ}\text{C}$  (for those specimens whose softening points below  $80^{\circ}\text{C}$ , make distilled water as medium)
3. Resolution:  $0.01^{\circ}\text{C}$
4. Blender: continuous stirring, speed adjustable
5. Heating rate: 3 minutes later, heating rate automatically adjusted to  $5.0 \pm 0.5^{\circ}\text{C}/\text{min}$
6. Test results is LCD displayed and printable;
7. Heating power: 600W
8. Effective beaker volume: 800ml
9. Room temperature is required to be less than  $35^{\circ}\text{C}$ , non-air-convection
10. Relative humidity:  $\leq 85\%$
11. Power consumption: less than 700W

## STLZ-1 Double-digital Display Asphalt Penetrometer



CE

Complies to ASTM D5, AASHTO T49

**Parameters:**

1. Digital display of penetration depth and time set at top front of the cantilever;
2. Penetration Needle 2.5g, hardened steel, with shaft suitable for the plunger;
3. Plunger: 97.5g;
4. Specimen container:  $55(\text{dia}) \times 35\text{mm}$
5. Penetration measuring resolution:  $0.01\text{mm}$
6. Max. penetration depth: 40mm

## STLZ-2 Double-digital Display Asphalt Penetrometer



CE

Complies to ASTM D5, AASHTO T49

Similar to STLZ-1 but penetration depth and time set are displayed at the working table front panel.

**Parameters:**

1. Digital display of penetration depth and time set;
2. Penetration Needle 2.5g, hardened steel, with shaft suitable for the plunger;
3. Plunger: 97.5g;
4. Specimen container:  $55(\text{dia}) \times 35\text{mm}$
5. Penetration measuring resolution:  $0.01\text{mm}$
6. Max. penetration depth: 40mm

## STLZ-5 Automatic Asphalt Penetrometer



Complies to ASTM D5, AASHTO T49

Similar to STLZ-2 but working table is fixed and needle height can be adjusted by two rotating wheels at two side of the cantilever.

**Parameters:**

1. Automatic display standard needle drop time and displacement
2. LCD display of penetration depth and time set
3. Penetration Needle 2.5g, hardened steel
4. Plunger: 97.5g;
5. Specimen container: 55(dia)×35mm
6. Penetration measuring resolution: 0.01mm

## STLZ-3D Low Temperature Double-digital Display Asphalt Penetrometer



Complies to ASTM D5, AASHTO T49

**Parameters:**

1. Digital display of penetration depth and time set;
2. Penetration Needle 2.5g, hardened steel, with shaft suitable for the plunger;
3. Plunger: 97.5g;
4. Specimen container: 55(dia)×35mm
5. Penetration measuring resolution: 0.01mm
6. Max. penetration depth: 50mm
7. Water bath foundation is electrically elevated.
8. Needle penetration: default time is 5 seconds, 1-99 seconds are available for special requirement;
9. Temperature control accuracy: 0.1°C
10. Working temperature is between 5°C-70°C

## STLZ-5D Low Temperature Double-digital Display Asphalt Penetrometer



Complies to ASTM D5, AASHTO T49

**Parameters:**

1. Digital display of penetration depth and time set;
2. Penetration Needle 2.5g, hardened steel, with shaft suitable for the plunger;
3. Plunger: 97.5g;
4. Specimen container: 55(dia)×35mm
5. Penetration measuring resolution: 0.01mm
6. Max. penetration depth: 50mm
7. Water bath foundation is electrically elevated.
8. Needle penetration: default time is 5 seconds, 1-99 seconds are available for special requirement;
9. Temperature control accuracy: 0.1°C
10. Working temperature is between 5°C-70°C

## STYD-2 Digital Display Asphalt Ductilometer



**Application:** Determination of ductility and the elastic reset of bitumen. Stainless steel for both casing and water bath.

**Parameters:**

1. Extension speed: 50±2.5mm/min
  2. Max. ductility: 1500mm, 2000mm
  3. Heating range: room temperature-50°C
  4. Temperature accuracy: ±0.5°C
  5. Voltage: AC220V 50HZ
  6. Mould size: 75×32×10mm
  7. Suitable for testing 3 samples simultaneously
  8. Dimension: 2080×390×560mm
- Features: Stainless steel for both inside and outside casing, with ABS controller, and twin lead screws.

## STYD-3 Digital Display Low Temperature Asphalt Ductilimeter



Elongation mould



**Application:** Determination of ductility and the elastic reset of bitumen. Stainless steel for both casing and water bath.

**Parameters:**

1. Temperature control range: 0-50.0°C
2. Temperature accuracy:  $\pm 0.5^\circ\text{C}$
3. Accuracy in full ductility:  $\pm 1\text{mm}$
4. Max. ductility: 1500mm, 2000mm
5. Refrigerator power: 1.75HP
6. Heating power: 1.5KW
7. Dynamometric range: 0-2KN
8. Suitable for testing 3 samples simultaneously
9. Dimension: 2000x440x1320mm

**Features:** imported compressor, stainless steel inside electrophoretic coating outside, ABS controller

## STYD-3 Digital Display Low Temperature Asphalt Ductilimeter STYD-4 Digital Display Low Temperature Asphalt Ductilimeter (with dynamometer)



Similar to the STYD-2 but with refrigerator unit and thermostat for temperatures from 0-50°C.  
**Application:** Determination of ductility and the elastic reset of bitumen. Stainless steel for both casing and water bath.

**Parameters:**

1. Temperature control range: 0-50.0°C
2. Temperature accuracy:  $\pm 0.5^\circ\text{C}$
3. Accuracy in full ductility:  $\pm 1\text{mm}$
4. Max. ductility: 1500mm, 2000mm
5. Refrigerator power: 1.75HP
6. Heating power: 1.5KW
7. Dynamometric range: 0-2KN
8. Suitable for testing 3 samples simultaneously
9. Dimension: 2000x440x1320mm

**Features:** imported compressor, both inside and outside stainless steel, ABS controller

## STYD-5 Microcomputer Control Low Temperature Digital Asphalt Ductilimeter



Similar to the STYD-2 but with refrigerator unit and thermostat for temperatures from 0-50°C, and controlled with computer.

**Application:** Determination of ductility and the elastic reset of bitumen. Stainless steel for both casing and water bath.

**Parameters:**

1. Temperature control range: 0-50.0°C
2. Temperature accuracy:  $\pm 0.5^\circ\text{C}$
3. Accuracy in full ductility:  $\pm 1\text{mm}$
4. Max. ductility: 1500mm, 2000mm
5. Refrigerator power: 1.75HP
6. Heating power: 1.5KW
7. Dynamometric range: 0-2KN
8. Suitable for testing 3 samples simultaneously
9. Dimension: 2000x440x1320mm

**Features:** imported compressor, both inside and outside stainless steel, computer control.

## STCT-4 Digital Display Asphalt Centrifuge Extractor



**Structure:** The asphalt extractor consists of a rotating bowl protected by a removable cover, a steel structure and a variable speed driving unit.

**Parameters:**

1. Working voltage: AC220V 50HZ
2. Power: 250W
3. Speed variable between 500 and 3000 rpm
4. Capacity: 1500g
5. Time digital display, timing option: 30s, 60s, 90s, 120s, 150s
6. Weight: 45kg
7. Measurement: 430x430x470mm

**Features:** with shock-damping device preventing mine powder from running away, time to be digital displayed, variable speed, reliable performance.

## STCT-4A Digital Display Asphalt Centrifuge Extractor



CE

**Structure:** The asphalt extractor consists of a polished aluminium alloy bowl, a stainless steel centrifuge axial and a stainless steel housing case.

**Parameters:**

1. Working voltage: AC220V 50HZ
2. Power: 550W
3. Speed variable between 500 and 3000 rpm
4. Capacity: 3000g
5. Time digital display, timing option: 30s, 60s, 90s, 120s, 150s
6. Weight: 45kg
7. Measurement: 380x350x400mm

**Features:** multilevel timing provides options for extracting time according to test requirement; with shock-damping device, preventing mine powder from running away.

Rapid extraction, easy operation, reliable performance, low noise

## STCT-5 Full Automatic Bitumen Extraction Apparatus (Asphalt Extractor)



CE

**Application:** determination of the quantitative amount of bitumen in bituminous paving mixtures whilst providing high safety to the operator.

**Parameters:**

1. Working voltage: 380V×10% or 220V×10%
2. Motor power: 1.5KW
3. Rotation speed: 5,500rpm, 11,000rpm
4. One extraction takes 40 min
5. Environment temperature shall be between 5°C and 45°C
6. Working temperature is between 0°C and 100°C
7. Solvent quantity required for one extraction is 10 Liter
8. Specimen bowl diameter is 120mm
9. Four sieves (0.075, 0.15, 0.6, 2.36mm) to be placed inside the funnel for complete separation are supplied

**Features:** Stainless steel cabinet and ABS plastic controller; automatic extraction and solvent recovery; easy to operate, convenient in application.

## STHS-1 Trichloroethylene Recycler



CE

**Application:** trichloroethylene recycler is composed of mixture liquid vaporizing cell, condensation cell, extraction adjustment device and temperature control device. It is applied to reclaim trichloroethylene from asphalt solution.

**Parameters:**

1. Compressor power: 120W
2. Power of the heating tube: 800W
3. Voltage: AC220V
4. Capacity: 1500ml-3500ml asphalt solution every time
5. Environmental temperature shall be between 0 and 40 degree, relative humidity smaller than 85%. No mechanical vibration and no corrosive gas nearby.
6. Airflow is adjustable.

## STLXJ-4 Centrifuger



CE

1. Max. Speed: 5000RPM
2. Max. relative centrifugal force: 4390N
3. Max. Capacity: 4×500ml
4. Time range: 0-99min.
5. Motor: brushless electric machine
6. Power: AC220V 50HZ 15A
7. Outsize: 460mm×590mm×360mm
8. Weight: 40KG

### STMD-3 Asphalt Mixture Maximum Theory Density Meter



**Application:** Suitable for measuring maximum theory density of asphalt mixture by vacuum method.

**Parameters:**

1. Suction pressure range: 0-100Kpa
2. Vibration loading: >10kg
3. Vibration frequency: 3HZ
4. Rated power: 200W

**Feature:** ABS plastic for casing cabinet.

### STMD-4 Asphalt Mixture Maximum Theory Density Meter (New Standard)



**Application:** Suitable for measuring maximum theory density of asphalt mixture by vacuum method.

**Parameters:**

1. Suction pressure range: 0-100Kpa
2. Vibration loading :> 10kg
3. Vibration frequency: 3HZ
4. Rated power: 200W

**Feature:** LCD Display, ABS plastic for casing cabinet, can setting freely according to standard requirement, equip filter, sensor, adjusting valve.

### STBX-82 Rotating Bituminous Membrane Oven



**Application:** measurement of quality loss of pavement asphalt membrane after heating, thus to judge age resistant property.

1. Heat power: 2.8KW
2. Temperature range: 50-200°C
3. Rotation speed: 6 rpm
4. Size of working room: 450×420×420mm
5. Voltage: AC220V

**Features:** stainless steel material for liner, inner door, and container.

### STBX-85 Rotating Bituminous Membrane Oven



**Application:** measurement of quality loss of pavement asphalt membrane after heating, thus to judge age resistant property.

1. Heat power: 2.8KW
2. Temperature range: 50-200°C
3. Rotation speed: 6 rpm
4. Size of working room: 430×450×450mm
5. Voltage: AC220V

**Features:** stainless steel material for liner, inner door, and container.

## STLN-2 Electric Asphalt Viscometer



CE

**Application:** Determine viscosity of thick petroleum asphalt, liquid petroleum asphalt and coal asphalt etc..

**Parameters:**

1. Orifice diameter:  $3 \pm 0.025\text{mm}$ ,  $4 \pm 0.025\text{mm}$ ,  $5 \pm 0.025\text{mm}$ ,  $10 \pm 0.025\text{mm}$ ;
2. Specimen cylinder size: internal diameter:  $40\text{mm}$ , depth:  $105\text{mm}$

**Features:** ABS plastic casing, stainless steel water tank

## STEGL-2 Asphalt Engler Viscometer



**Application:** It is used to test viscosity of oil product and other liquid.

**Specification:**

1. Standard water number:  $51 \pm 1\text{s}$
2. Testing temperature: room temperature to  $100^\circ\text{C}$
3. Accuracy of temperature:  $\pm 1^\circ\text{C}$
4. Receiving bottle:  $200\text{ml}$
5. Thermometer:  $0-60^\circ\text{C}$ ,  $50-110^\circ\text{C}$
6. Scale division:  $0.5^\circ\text{C}$

## STXZ-2 Digital Rotating Viscometer



**Application:** It used to test viscosity of Newtonian Fluids such as petroleum, grease, printing ink, food, medicine, cosmetic, etc.

**Specification:**

1. Testing range:  $1-1 \times 10^5 \text{ mPa}\cdot\text{s}$
2. Testing rotate speed:  $6\text{r}/\text{min}$ ,  $12\text{r}/\text{min}$ ,  $30\text{r}/\text{min}$ ,  $60\text{r}/\text{min}$
3. Testing error:  $\pm 2\%$
4. Power:  $220\text{V } 50\text{Hz}$

## STYDN-3 Asphalt Kinematic Viscometer



**Application:** Measurement kinematic viscosity of materials whose viscosity range between  $6-100000\text{mm}^2/\text{s}$  by glass capillary viscometer at temperature  $135^\circ\text{C}$ .

**Parameter:**

1. Voltage:  $220\text{V}$ ,  $50\text{Hz}$ ;
2. Relative humidity:  $10-85\%$
3. Capillary viscosity tester: one group includes 13 pieces, their internal diameters are:  $0.4$ ,  $0.6$ ,  $0.8$ ,  $1.0$ ,  $1.5$ ,  $2.0$ ,  $2.5$ ,  $3.0$ ,  $3.5$ ,  $4.0$ ,  $4.5\text{mm}$ ,  $5.0$ ,  $6.0(\text{BMN-2 type})$ ;
4. Temperature control : room temperature -  $135^\circ\text{C}$
5. Temperature control accuracy:  $\pm 0.01^\circ\text{C}$
6. Viscosity determination range:  $6-100000\text{mm}^2/\text{s}$
7. Timing range:  $0.0-999.9\text{S}$
7. Power of the heater:  $1000\text{W}$

## STDN-3 Asphalt Dynamic Viscometer



CE

**Application:** Measurement of dynamic viscosity of materials whose viscosity range between 0.0036-20.000Pa.s by vacuum capillary method. Testing vacuum degree is 300mmHg (40Kpa) while testing temperature under 60°C.

**Parameters:**

1. Voltage: 220V AC
2. Temperature controlling range: 0.00-100°C
3. Temperature accuracy:  $\pm 0.02^\circ\text{C}$
4. Pressure range:  $300 \pm 0.5\text{mmHg}$
5. Timing range: 0.0-999.9S
6. Timing precision:  $\leq 0.05\%$
7. Testing range: around 4.2~580000Pa.s
8. 4 viscometer holders

**Features:** LCD display; with function of saving and testing time; automatic control of temperature and vacuum degree; with auto timer.

## STLR-3 Electric Asphalt Flash fire Point Tester



CE

**Application:** It's used to determine flash and fire point of bitumen

1. Power voltage:  $220\text{V} \pm 10\%$
2. Can adjust the rise temperature speed

**Feature:** Total stainless steel worktable, with flame lighter

## STXHC-05 Constant Temperature Circulating Water Bath



1. Voltage: AC220V 50HZ
  2. Heating power: 500W
  3. Cooling power: 350W
  4. Temperature controlling: 0-100°C
  5. Environment temperature:  $-10^\circ\text{C}$ - $45^\circ\text{C}$
- Relative humidity: less than 85%

## STSY-2 Digital Constant Temperature Bath



CE

**Application:** keeping pitch and its mixture under constant temperature condition.

**Technical parameters:**

1. Power: AC220V
2. Heating power: 1000W
3. Temperature control range: room temperature- $95^\circ\text{C}$
4. Environment temperature:  $-10$ ~ $45^\circ\text{C}$ ;
5. Working size:  $495 \times 290 \times 150\text{mm}$

**Feature:** Stainless steel liner

## STSY-3 Digital Constant Temperature Water Bath



CE

**Application:** used to keep constant temperature for bitumen specimen and their mixture;

**Technical parameters:**

1. Power: 1000W
2. Voltage: AC220V
3. Temperature range: room temperature-95°C;
4. Environment temperature: -10~45°C;
5. Working size: 470×310×330mm;

**Feature:** Stainless steel liner

## STSY-4 Low Temperature Constant Temperature Water Bath



CE

**Application:** used to keep constant temperature for bitumen specimen and other specimen;

**Technical parameters:**

1. Power voltage: AC220V 50HZ
2. Heating power: 500W
3. Refrigerate power: 180W
4. Temperature control: 0-60°C
5. Environment temperature: -10-45°C;
6. Working size: 800×450×450mm

**Feature:** Both outside and inside stainless steel material and ABS plastic controller

## STLJ-4 Horizontal Asphalt Mixture Mixer



CE

**Application:** Suitable for mixing asphalt sample

**Specification:**

1. Mix capacity: 10L
2. Pan heater temperature range: room temperature-250°C;
3. Temperature control accuracy: ±3°C;
4. Mixing time: 1-999S;
5. Paddle rotation speed: 75r/m; paddle revolution speed: 48r/m

**Features:** insulation for agitation pan, heating by conduction oil.

## STLJ-5 Asphalt Mixture Mixer



CE

**Application:** Suitable for mixing asphalt sample

**Specification:**

1. Mix capacity: 20L
2. Oil bath temperature range: room temperature-200°C;
3. Temperature control accuracy: ±0.5°C;
4. Mixing time: 1-999S;
5. Mix round oar rotation: 75rotation/min  
Mix round oar revolution: 46rotation/min
6. Power voltage: 220V±10%, current 10A
7. Heating power: 1.5KW
8. Stirring pot with insulation, heating HTF

**Features:** insulation for agitation pan, heating by conduction oil, high precision

## STMJ-1 Digital Automatic Marshall Compactor STMJ-1D Digital Large Automatic Marshall Compactor



CE

**Application:** The Marshall compactor is applied for compaction of Marshall specimen, which will result in consistent and repeatable laboratory specimens, and releasing staff for other work during the compaction process.

**Technical parameters:**

1. Hammer weight: 4.536Kg(STMJ-1), 10.21kg(STMJ-1D)
2. Height of fall: 457.2mm
3. Compaction frequency: 60hit/min
4. Diameter of the compaction head: 98.5mm(STMJ-1), 149.5mm(STMJ-1D)
5. Specimen size: 101.6(dia.) × 87mm(STMJ-1), 152.4mm(dia.) × 115mm(STMJ-1D)
6. Direct reading counter: 0-9999 times
7. Memory of preset compaction times
8. Laminated hardwood block compaction foundation: 457x200x200mm
9. Voltage: AC220V
10. Power: 370W
11. Measurement: 1740x510x510mm, weight: 180kg

**Features:** whole hammerhead, control cabinet made of ABS plastic; consistent and even compaction

Manufacturing License for China  
Industrial Products  
(XK07-003-00014)

## STMJ-1A Digital Automatic Marshall Compactor STMJ-2D Digital Large Automatic Marshall Compactor



CE

**Application:** The Marshall compactor is applied for compaction of Marshall specimen, which will result in consistent and repeatable laboratory specimens, and releasing staff for other work during the compaction process.

**Technical parameters:**

1. Hammer weight: 4.536Kg(STMJ-1A), 10.21kg(STMJ-2D)
2. Height of fall: 457.2mm
3. Compaction frequency: 60hit/min
4. Diameter of the compaction head: 98.5mm(STMJ-1A), 149.5mm(STMJ-2D)
5. Specimen size: 101.6(dia.) × 87mm(STMJ-1A), 152.4mm(dia.) × 115mm(STMJ-2D)
6. Direct reading counter: 0-9999 times
7. Memory of preset compaction times
8. Laminated hardwood block compaction foundation: 457x200x200mm
9. Voltage: AC220V
10. Power: 370W
11. Measurement: 1740x510x510mm, weight: 180kg

**Features:** whole hammerhead, control cabinet made of ABS plastic; consistent and even compaction

Manufacturing License for China  
Industrial Products  
(XK07-003-00014)

## STSMJ-2 Manual Marshall Compactor



1. Hammer weight: 4.536Kg, 10.21kg
2. Height of fall: 457.2mm
3. Diameter of the compaction head: 98.5mm, 149.5mm
4. Specimen size: 101.6(dia.) × 87mm  
152.4mm(dia.) × 115mm
5. With Base

## STSMJ-1 Manual Marshall Compactor



1. Hammer weight: 4.536Kg, 10.21kg
2. Height of fall: 457.2mm
3. Diameter of the compaction head: 98.5mm, 149.5mm
4. Specimen size: 101.6(dia.) × 87mm  
152.4mm (dia.) × 115mm

## STM-1 Marshall Testing Machine



1. Capacity: 0-50KN
2. Resolution: 0.1KN
3. Twin displacement structure, displacement gauge resolution: 0.01mm
4. Environment temperature: -10°C-40°C
5. Test speed 50.8mm/minute
6. Supplied with one breaking head, diameter 101.6mm

STM-5 Digital Marshall Testing Machine(with print and add MC mark)  
STM-5D Large Digital Marshall Stability Tester(with print)  
STM-6 Digital Marshall Stability Tester(LCD)



- Complies to ASTM D1559**
1. Capacity:0-50KN precision:1%
  2. Resolution:0.1KN,0.01KN
  3. Twin displacement structure, displacement resolution: 0.01mm
  4. Environment temperature: -10°C-40°C
  5. Test speed 50.8mm/minute
  6. Supplied with one breaking head, diameter 101.6mm
- Features:** Equipped with one S shape load cell and double displacement sensors, peak value automatically preserved and printing, the principal axis automatically fall after printing

## STM-7 Digital Marshall Stability Tester (With Print)



**Complies to ASTM D1559**

1. Loading: 0-50KN; Loading error:  $\pm 0.05\%$  (F.S)
  2. Displacement: 0-10mm; Displacement error:  $\pm 0.05\%$  (F.S)
  3. Loading speed:  $50 \pm 5$ mm/min.
  4. Environment: Temperature: -10°C-35°C; Relative Humidity: no higher than 85%
  5. Supplied with one breaking head, diameter 101.6mm
- Features:** Equipped with one S shape load cell and double displacement sensors, peak value automatically preserved and printing, the principal axis automatically fall after printing

## STLL-2 Asphalt Paraffin Content Tester



1. Working voltage: AC220V
2. Working temperature: -25°C ~ 40°C
3. Lowering temperature speed: 0.3°C/min
4. Refrigerate power: 1HP.
5. Features: Import compressor, stainless steel production both inside and outside

## STCZ-1 Wheel Rutting Tester (Wheel Tracking Device)



**Application:** The Wheel Tracking Device measures rutting resistance ability of asphalt mixture against high temperature and supplemental tests of asphalt mixture design.

**Parameter:**

1. Rolling distance of the grinding wheel:  $42 \pm 1$  times/ min
2. Movement distance of the testing trolley :  $230 \pm 10$  mm
3. Specimen mould size:  $300 \times 300 \times 50$  mm
4. Measuring range of the displacement: 0-40 mm
5. Wheel rutting test time: 1-999 min
6. Constant temperature controlling range: room temperature -80°C

## STCX-1 Wheel Tracking Device Specimen Molding Machine



Patent product

1. Mould size:  $300 \text{mm} \times 300 \text{mm} \times (30-100 \text{mm})$
2. Radius of roller: 500 mm, width: 300 mm
3. Movement speed of mould vehicle: 6 times round-trip/min
4. Roller pressure: could be set between 0 to 20 KN
5. Outer dimension:  $1750 \times 1216 \times 640$  mm
6. Net weight: 300 Kg
7. Power: 3 KW

**Features:** Stainless working table, painting by electrophoresis method which can last longer time.

## STRS-6 Ignition Method Asphalt Content Furnace



Complies to AASHTO T 308-99 and ASTM D6307-98  
**Application:** The Asphalt Content Furnace with internal automatic balance is an environmentally friendly and cost-effective method for the accurate determination of asphalt content. Ignition method reduces testing time compared to solvent testing methods and automatic operation frees technicians for other tasks.

**Technical parameters:**

1. Max. weight of specimen: 4500g;
2. Commendatory weight of specimen Measuring: 1000-1500g;
3. Precision of Balance: 0.1g, capacity of Balance: 8kg;
4. Firebox size:  $350 \text{mm} \times 440 \text{mm} \times 330 \text{mm}$ ;
5. Max. working Temperature of firebox: 800°C;
6. Standard working Temperature: 538°C with temperature compensation;
7. Testing time: 20-30 min;
8. Electric current:  $\leq 20$  A;

**Features:** Test parameters set by touching keyboard on front controller; inbuilt printer; data storage facility, LCD display; automatic end point detection;

## STYSY-3 Asphalt Mixture Gyratory Test Machine



1. Size: 217X85X62.23cm, if include cover height will be 188cm
2. Fixed pressure: 600Kpa
3. Rotation perspective: 1.25°
4. Inside diameter of mould: 150mm or 100mm
5. Rotation times of each test: 0~300
6. Rotation rate: 30rpm
7. Data collection: collect specimen height data after each rotation

## STWDS-1 Asphalt Particle Ionic Charge Testing Apparatus

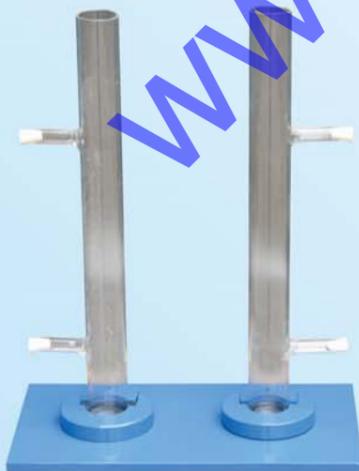


This apparatus is designed and manufactured according to the transportation professional standard JTJ052-2000 T0653. It is used to determine the ionic charge of asphalt particle.

### Technical parameters:

1. Voltage: AC220V ± 10%, 50HZ
2. Working Environment: room temperature < 35°C
3. Testing voltage: DC6V

## STWDX-1 Asphalt Storage Stability Testing Machine



### Parameters

1. Effective height of glass test tube: 310 ± 10mm
2. Marker line: 250ml
3. Diameter of specimen load port:  $\Phi 32 \pm 0.1$ mm
4. Base is made of 10mm chromized steel plate, strong enough to support the apparatus.
5. Clamping of glass test tube is adjustable to upper and lower place.

**Features:** General structure design is reasonable and elegant.

## STLM-II Wet Wheel Abrasion Loss Tester (Complies to ASTM D3910)



**Application:** Wet wheel abrasion loss tester is used to perform abrasion test of asphalt emulsion slurry mixture, and help to determine optimum asphalt content for slurry mixture.

### Specifications:

1. Voltage: 220V
  2. Power: 250W
  3. Abrasion head weight: 2.27kg
  4. Time controller: digital display and adjustable
  5. Template: 300x300x6mm
  6. Circular opening of template: 279mm
- Abrasion head: revolution 61rpm, rotation 140rpm

## STLRJ-3 Full Automatic High Speed Modified Asphalt Emulsify Shear Machine



Mix motor power: 370W

Rotation: 1-1000RPM

Medium viscosity: =1000CP

Mix capacity: 500ml-4L

Mix time: 0-999s

Mix bowl capacity: 4L

Heating temperature: room temperature- 250°C

Heating medium: heat conducting oil

## STLNJ-2 Emulsified Asphalt Cohesion Tester (Complies to ASTM D3910)



CE

**Application:** The Cohesion Tester is used to determine setting time of an emulsified asphalt slurry seal mixture.

**Parameters**

1. Pressure gauge 0-1.0Mpa
2. Torquemeter (0-600N.CM)
3. Rubber foot with hardness 60, size: 28.6 (diameter) × 6.4mm Ring moulds (6 × 60mm, 10 × 60mm)

## STLS-1 Fraass Breaking Point Apparatus



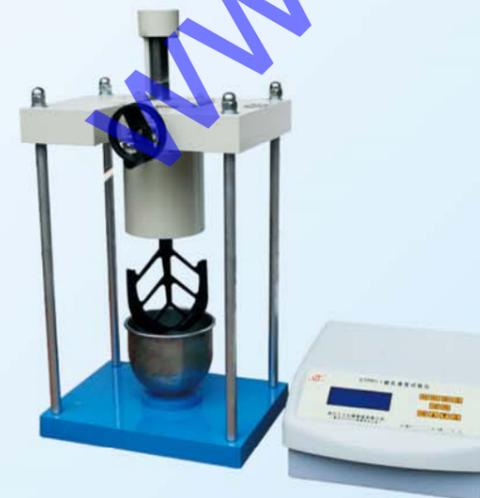
Used for determining the breaking point of solid and semisolid bitumens. The Fraass Breaking Point is the temperature at which bitumen first becomes brittle, as indicated by the appearance of cracks when a thin film of the bitumen on a metal plaque is cooled and flexed in accordance with specified conditions.

## STHSL-1 Asphalt Water Content Tester



1. Voltage: AC 220V±10%
2. Power of oven: 1000W
3. Heating control: Two way non-adjustable pressure control
4. Environment temperature: no higher than 35°C
5. Relative humidity: no higher than 85%
6. Machine power consumption: no higher than 1100W

## STPRY-1 Demulsification Speed Testing Machine



1. Free setting working time
2. Revolution: 60RPM
3. Capacity of mixing bowl: 100ml
4. There are handle in the spherical base.
5. Have Metal scoop

## STLHY-1 Asphalt Mixture Water Seepage Testing Machine



**Application:** It is suitable to test water seepage

coefficient of asphalt pavement and roller

compacting moulding asphalt mixture.

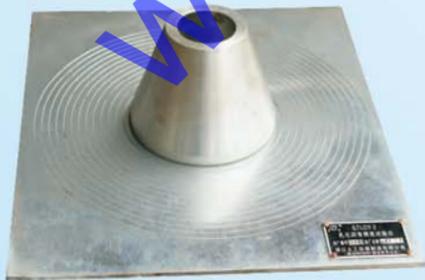
**Specification:**

1. Specimen: dia. 152X115mm

2. Volume: 0-200ml

3. Pressure: negative 2Mpa air suction

## STLDY-2 Emulsified Asphalt Consistency Tester



1. It consists of cone, backing plate and base plate, simple structure.

2. Cone head made from aluminum alloy.

3. Base plate made from stainless steel, durable use, there is scale in the plate in order to reading data conveniently.

4. Cone: Up diameter: 38mm; below diameter: 89mm; height: 76mm

5. Base plate: thickness: 4mm; there are concentric scale lines. Span is 0.5cm

## STLLN-2 Emulsified Asphalt Wheel Roller Compacting Testing Machine



**Application:** It is suitable to test if there is excess asphalt in slurry seal mixture of emulsified asphalt.

**Specification:**

1. Voltage: 380V/250W

2. Hardness of rubber loading wheel: 60-70

3. Roller compacting counter: digital display and adjustable

4. Rolling frequency: 44 times/min.

5. Specimen specific: 3, 5, 6, 8, 10mm

6. Radius of crank: 15cm (inner size 50X380mm)

## Asphalt Sampler



1. Brass production

2. Height: 240mm

3. Inner diameter: 80mm

4. Inner caliber: 48mm

5. Thickness: 5mm



Asphalt split clamp



Asphalt bending clamp



Asphalt uniaxial compression clamp



Asphalt pycnometer  
Volume: 20ml

## STYH-4 Automatic Curing Cabinet Controller



CE

**Application:** Controller for curing cabinet of cement specimens, concrete specimens;

**Technical parameter:**

1. Capacity: 10m<sup>2</sup>
2. Temperature control range: 0-50°C;
3. Accuracy: ± 2°C;
4. Humidity >95% RH;
5. Heating power: 2KW;
6. Refrigerator power <2KW;
7. Humidify power: 60W;
8. Voltage: 220+10%V, 50+1Hz;
9. Controller dimension: 500×285×900mm; main frame dimension: 350×420×600mm.

## STYH-60 Automatic Intelligent Curing Cabinet Controller



CE

**Application:** Intelligent Controller for curing cabinet of cement specimens, concrete specimens;

**Technical parameter:**

1. Temperature control range: 20±2°C;
2. Humidity: =95% RH

**Feature:** Stainless steel production both inside and outside, nation patent.

## STYH-80 Automatic Intelligent Curing Cabinet Controller



CE

**Application:** providing required temperature and humidity for curing chamber by spraying cold or hot water spray.

1. Consist of main frame, off-premises station, condenser and sprayed system.
2. Refrigerate or heat separately according to room temperature.
3. Import compressor, stainless steel production both inside and outside, spray particle is small, symmetrical spraying.

Patent product, approved on provincial level

## STDW-30 Low Temperature Testing Cabinet

CE



1. Compressor power: 1HP
  2. Voltage: 220V ± 10%
  3. Temperature control range:  
-30°C to Room temperature
  4. Working room size: 500 × 550 × 600
- Features: imported good quality compressor which lowers temperature rapidly.

## STDW-40 Low Temperature Testing Chamber STDW-40C Low & High Temperature Testing Chamber

CE



STDW-40C

1. compressor power: 1HP
  2. Voltage: AC220V ± 10%
  3. temperature controlled range: -40-80°C
  4. working size: 0.2m<sup>3</sup>
- Features: with imported good quality compressor, stainless steel for both inner and outside of cabinet.

## STDW-40D Low & High Temperature Testing Chamber

CE



1. Compressor power: 1HP
  2. Voltage: AC220V ± 10%
  3. Temperature controlled range: -40°C-80°C
  4. Working size: 500 × 500 × 600mm
- Features: imported compressor, inner chamber by stainless steel.

## 401A Aging Testing Chamber



1. Voltage: AC220V 50HZ
2. Power: 2200W
3. Highest working temperature: 200°C
4. Rotary speed: 11-12RPM
5. Working room size: 450 × 450 × 500mm

## STLHX-1 Aging Testing Chamber



CE

**Application:** Used to aging testing for plastic material such as rubber and plastic electric insulation material and other material.

1. Working Temperature: Room temperature to 200°C
2. Precision: 0.1°C
3. Voltage: 220V/50HZ

**Feature:** Total stainless steel production inside

## STGS-2 Concrete Drying Shrinkage Testing Chamber



CE

1. Temperature: 20±2°C
2. Humidity: 60±5%
3. Working voltage: 220V
4. Automatic record temperature and humidity

## STTHX-2 Concrete Carbonization Testing Cabinet



CE

- Temperature:** 20°C ±2°C (adjustable)
- Humidity:** 70±5%RH(adjustable)
- Carbon dioxide concentration:** 20%±2%
- Heating power:** 2KW
- Cooling power:** 150W
- Electricity:** AC220V, 50HZ

## STHJX-2 Environment Testing Cabinet



CE

- Temperature:** 0-80°C
- Humidity:** 20%-100%
- Voltage:** 220V
- Precise meter, temperature and humidity are recorded and saved automatically.

## STYWX-1 Salt Spray Corrosion Cabinet



CE

- Temperature: 35-55°C
- Temperature fluctuation:  $\pm 0.5^\circ\text{C}$
- Temperature uniformity:  $\pm 2^\circ\text{C}$
- Salt spray settlement: 1~2ml/80cm<sup>2</sup>.h
- Spray pattern: spray tower
- Continuous spray and periodic spray options are available

## STTL-2 Paint Testing Chamber



1. Control temperature:  $20 \pm 2^\circ\text{C}$
2. Relative humidity:  $50 \pm 70\%$
3. Temperature and humidity automatically recording
4. Working voltage: 220V

## STGDW-2 Low & High Temperature Moist Heating Testing Cabinet



CE

1. Temperature:  $-40 \sim +80^\circ\text{C}$
2. Temperature accuracy:  $\pm 0.5^\circ\text{C}$
3. Humidity accuracy:  $\pm 2\%$
4. Voltage: 220V
5. Precise meter, temperature and humidity are recorded and saved automatically.

## JKS Alkali-Aggregate Testing Cabinet



CE

1. Voltage: 220V
2. Heating power: 4000W
3. Temperature:  $80^\circ\text{C} \pm 0.5^\circ\text{C}$
4. Requested environmental temperature:  $-10 \sim +45^\circ\text{C}$
5. Environmental humidity: less than 85%

## STJL-2 Alkali-Aggregate Reaction Continuous Testing Machine



1. Voltage: 220V±5%, 50HZ
2. Heating power: 2000W
3. Temperature: 80°C ±0.5°C
4. Requested environmental temperature: -10~+45°C
5. Environmental humidity: less than 85%
6. Accept 12 specimens

## STSHY-1 Cement Constant Temperature Water Curing Cabinet(drawer type)



- Technical parameters:**
1. Specimens quantity to be tested: 30 groups;
  2. Temperature control: 20±0.5°C
  3. Apparatus resolution: 0.1°C
  4. Refrigeration power: 0.14KW
  5. Heating power: 0.4KW
  6. Voltage: AC220V
  7. Dimensions 790x750x1900
  8. Weight: 260kg
- Features:** outer case is made of cold rolled sheet, while inner container is made of high quality stainless steel. Overall pu: polyurethane foamed insulation layer, stainless steel shelves, drawers design and water plates obtain good heat preservation property and corrosion resisting property.

## STSHY-2 Cement Constant Temperature Water Curing Cabinet(drawer type)



- Technical parameters:**
1. Specimens quantity to be tested: 30 groups;
  2. Temperature control: 20±0.5°C
  3. Apparatus resolution: 0.1°C
  4. Refrigeration power: 0.14KW
  5. Heating power: 0.4KW
  6. Voltage: AC220V
  7. Dimensions 790x750x1900
  8. Weight: 260kg
- Features:** outer case is made of cold rolled sheet, painted with polyester powder, while inner container is made of high quality stainless steel. Overall pu: polyurethane foamed insulation layer, stainless steel shelves, drawers design and water plates obtain good heat preservation property and corrosion resisting property.

## HBV-40B Standard Concrete Curing Cabinet (patent product)



Patent product

- Functions** include heating, refrigeration, spray, temperature and humidity controlling. Two-doors design ensures good heat retaining property.
- Technicle parameters:**
1. Digital control unit: temperature and relative humidity are displayed at all times as well as all the other phases.
  2. Voltage: AC220V, 50HZ;
  3. Compressor power: 125W;
  4. Heating power: 600W;
  5. Humidity: >95%RH;
  6. Temperature range: 15°C-30°C, ±1°C;
  7. Refrigerating system: direct cooling refrigerator, coil evaporator and exposed condenser; inner fan to help heat exchange and reduce temperature difference;
  - Heating:** U type electric heating tubes;
  8. Humidifier: ultrasonic humidifier, spray foam water molecular style ensures humidity >95%RH;
  9. Working room: 600X550X1380mm

## HBY-40C Standard Concrete Curing Cabinet (patent product)

**Functions** include heating, refrigeration, spray, temperature and humidity controlling.

Two-doors design ensures good heat retaining property.

**Technicle parameters:**

1. Digital control unit: temperature and relative humidity are displayed at all times as well as all the other phases.
2. Voltage: AC220V, 50HZ;
3. Compressor power: 125W;
4. Heating power: 500W;
5. Humidity: >95%RH;
6. Temperature range: 15°C-30°C, ±1°C;
7. Refrigerating system: direct cooling refrigerator, coil evaporator and exposed condenser; inner fan to help heat exchange and reduce temperature difference;
- Heating: U type electric heating tubes;
8. Humidifier: ultrasonic humidifier, spray foam water molecular style ensures humidity >95%RH.
9. Working room: 600X550X1380mm;
10. Outer dimension: 1180X860X1640mm
11. Weight: 185kg

**Feature:** Outcasing is painted with polyester powder.



Patent product

CE

## HBY-60B Standard Concrete Curing Cabinet

**Functions** include heating, refrigeration, spray, temperature and humidity controlling.

Structure: Inner structure is made of stainless steel, outer structure is made of high quality cold rolled steel and thermal insulation is polyurethane form. 6 shelves are made of stainless steel.

Three-doors design ensures good heat retaining property. Easy observation inside of the cabinet through the glass doors.

**Technicle parameters:**

1. Digital control unit: temperature and relative humidity are displayed at all times as well as all the other phases.
  2. Voltage: AC220V, 50HZ;
  3. Compressor power: 125W;
  4. Heating power: 600W;
  5. Humidity: >95%RH;
  6. Temperature range: 15°C-30°C, ±1°C;
  7. Refrigerating system: direct cooling refrigerator, coil evaporator and exposed condenser; inner fan to help heat exchange and reduce temperature difference;
  - Heating:** U type electric heating tubes;
  8. Humidifier: ultrasonic humidifier, spray foam water molecular style ensures humidity >95%RH.
  9. Working room: 2120X700X1640mm;
- Features: magnetic valve adds water automatically to the humidifier, uniform temperature and humidity inside of the cabinet, high precision, no dripping from cabinet top.



CE

## STHSX-1 Concrete Rapid Curing Cabinet



CE

1. Voltage: 220V
2. Cabinet temperature is to be controlled by the user, from room temperature to 100°C
3. Heating power: 3000W
4. Working size: 580x420x400mm

## STSSX-2 Cement Rapid Curing Cabinet



**Application:** It used to do fast curing for cement specimen.

**Specification:**

- Voltage: AC 220V
2. Cabinet temperature is controlled by the user, from room temperature to 100°C
  3. Heating power: 1000W
  4. Working size: 520x310x330mm

## STDRJ-2 Freezing and Thawing Testing Machine



CE

Complies to ASTM/C666

**Application:** The machine determines the resistance of concrete specimens to rapidly repeated cycles of freezing and thawing in the laboratory by method of Rapid Freezing and Thawing in Water.

**Technical parameters:**

1. Accepted specimens are 16 pcs and 28pcs;
  2. Specimen size: 100×100×400mm, Specimen container size: 120×120×500mm,
  3. Freezing and thawing circle: around 2.5-4 hours while thawing time is no less than 1/4 of the whole circle,
  4. Time/specimen center temperature when freezing completed: 1.5-2.5hour/-17±2°C;
  5. Time/specimen center temperature when thawing completed: 1.0-1.5hour/3±2°C;
  6. Temperature difference between surface and center of specimens is less than 28°C;
  7. Standard cycles are 300 times while counter can record upto 999999 times;
  8. Freezing and thawing media: 120kg antifreeze fluid(-45°C);
  9. Imported high quality compressor: complet shut-off type 7.5HP;
  10. Max working power: 9.7KW;
- Features:** compact in frame; stainless steel for both inner and outside of the cabinet; easy installation and maintainance.

## STDRJ-3 Computer Control Freezing and Thawing Testing Machine

Complies to ASTM/C666

**Application:** The machine determines the resistance of concrete specimens to rapidly repeated cycles of freezing and thawing in the laboratory by method of Rapid Freezing and Thawing in Water.

**Technical parameters:**

1. Accepted specimens are 16 pcs and 28pcs;
2. Specimen size: 100×100×400mm,  
Specimen container size: 120×120×500mm,
3. Freezing and thawing circle: around 2.5-4h
4. Time/specimen center temperature when freezing completed: 1.5-2.5hour/ $-17\pm 2^{\circ}\text{C}$ ;
5. Time/specimen center temperature when thawing completed: 1.0-1.5hour/ $3\pm 2^{\circ}\text{C}$ ;
6. Temperature difference between surface and center of specimens is less than  $28^{\circ}\text{C}$ ;
7. Standard cycles are 300 times while counter can record upto 999999 times;
8. Freezing and thawing media: 120kg antifreeze fluid( $-45^{\circ}\text{C}$ );
9. Imported high quality compressor: complet shut-off type 7.5HP;
10. Max working power: 9.7KW;

**Features:** Computer control; compact in frame; stainless steel for both inner and outside of the cabinet; easy installation and maintainance.



## STS02-150 Sulfur Dioxide Corrosion Testing Chamber

1. Temperature range: room temperature- $50^{\circ}\text{C}$
  2. Humidity range: 85-98% RH
  3. Temperature regularity: no higher than  $2^{\circ}\text{C}$
  4. Temperature fluctuation:  $\pm 0.5^{\circ}\text{C}$
  5. Gas generator: cylinder gas
  6. Consistency of sulfur dioxide: 0.1-1% (volume percent)
- Feature: spraying plastics crust, inner stainless steel production, equip sulfur dioxide one pcs.



## STDT-12 Concrete Dynamic Elastic Modulus Tester

1. Frequency measuring range: 100-50KHZ
2. Measuring error: less than 2%
3. Frequency sensitivity: 1HZ
4. Output power: 0-15W
5. Environment:  $0-40^{\circ}\text{C}$  æ less than 90%RH
6. Working time: continuous 8h
7. Voltage: AC220V, 50HZ, less than 60W



## One Square Meter Viberating Table



CE

This viberating table is applied to viberate concrete specimen.

1. Area of table: 1 square
2. Vibrating speed: 2860 times/min
3. Amplitude: 0.3-0.6mm
4. Electric motor: 380V or 220V/1.1KW
5. Max load: 250kg

## ZH.DG-80 Concrete Magnetic Viberating Table



CE

1. Working voltage: 380V or 220V±10%
2. Vibrating speed: 2860 times/min.
3. Amplitude: 0.3-0.6mm
4. Vibrator's power : 1.5KW

Features: labour and time saving, low noise, strong magnetic force, digital display.

## ZH.DG-80 Concrete Magnetic Vibrating Table (ABS plastic vertical control cabinet)



1. Working voltage: 380V or 220V±10%
2. Vibrating speed: 2860 times/min.
3. Amplitude: 0.3-0.6mm
4. Vibrator's power: 1.5KW

Features: labor and time saving, low noise, strong magnetic force, and digital display; equip ABS plastic vertical control cabinet

## STWJ-60 Mobile Concrete Mixer



CE

**Application:** It is essential that the mixing of fresh concrete for laboratory test samples is thorough and consistent. Our Concrete Mixer is ideally suited for this purpose.

**Technical parameter:**

1. Input volume: 96L
2. Mix yield: 60L
3. Mixing time: 45 Sec
4. Speed of the mixing shaft: 45RPM
5. Motor power: 3.2KW
6. Outside size: 1520×530×1060mm
7. Weight: about 380KGS

Features: easy operation by front pedal, effective and even mixing; good closing and less dust; simple to clean and maintain.

## STHJS-60 Double Horizontal Shaft Concrete Mixer



1. Turning radius of mixing blade: 205mm
2. Speed of mixing blade:  $55 \pm 1$  RPM outwards
3. Capacity of mixing bowl: 105L
4. Mixing motor: 380V, 3000W
5. Frequency:  $50\text{HZ} \pm 0.5\text{HZ}$

## STLJ-30 Concrete Mixer



- Mixing capacity: 30L
- Mixing Speed: 22RPM
- Motor power: 380V/3.2kw

## STHG-80 Concrete Penetration Test Apparatus



**Application:** It's used to determine setting time of concrete by means of penetrations resistance measurements on mortar.

**Specification:**

1. Dial gauge accuracy: 5N
2. Penetration needle:  $100\text{mm}^2$ ,  $50\text{mm}^2$ ,  $20\text{mm}^2$

## STHG-80B Digital Concrete Penetration Test Apparatus



**Application:** The apparatus is used to determine the setting time of concrete by means of penetrations resistance measurements on mortar.

**Specification:**

1. Penetration needle:  $100\text{mm}^2$ ,  $50\text{mm}^2$ ,  $20\text{mm}^2$
2. Max penetration force: 1000N, resolution: 1N
3. Voltage: AC220V

**Features:** digital display, peak value automatically saved

## STHG-1000 Digital Concrete Penetration Test Apparatus



**Application:** The apparatus is used to determine the setting time of concrete by means of penetrations resistance measurements on mortar.

**Specification:**

1. Penetration needle: 100mm<sup>2</sup>, 50 mm<sup>2</sup>, 20 mm<sup>2</sup>
2. Max penetration force: 1000N, resolution: 1N
3. Voltage: AC220V

**Features:** electrical lifting, digital display, peak value automatically saved

## STHS-40 Intelligent Concrete Impervious Apparatus



1. Working pressure: 4Mpa;
2. Automatic pressure stabilization;
3. 6 pieces specimens accepted for one test;
4. Working voltage: AC220V;
5. Stainless steel table and water channel, with a water autoregulation device.

## STZHS-4 Intelligent Concrete Impervious Apparatus



1. Working pressure: 4Mpa;
2. Automatic pressure stabilization;
3. 6 pieces specimens accepted for one test;
4. Voltage: AC220V5. Single-chip control, with water autoregulation device.

## STZHS-5 Intelligent Concrete Impervious Apparatus (whole crust stainless steel)



1. Working pressure: 4Mpa;
2. Automatic pressure stabilization;
3. 6 pieces specimens accepted for one test;
4. Voltage: AC220V5. Single-chip control, with water autoregulation device, ABS vertical controller

## STLH-2/STLH-3 Concrete Air Content Meter (Air Entrainment Meter)



STLH-2

STLH-3

**Application:** used to determine air content in concrete mixture. The proper control of entrained air in concrete is recognized as one of the most important functions in modern concrete manufacture.

**Parameters:**

1. 1.7 liter capacity;
2. Aggregate size: 40mm maximum;
3. Readings: Up to 10% entrained air;
4. Pressure gauge in shock-proof mounting;
5. Pressure chamber is hermetically sealed by means of four quick-release clamps.
6. Dimension: 370x370x550mm, weight: 25kg

## STLST-2 Chloride Ion Permeameter



This permeameter is widely applied in Hangzhou Bay Cross-sea Bridge, Qingdao Gulf Bridge.

1. Voltage: 220V
2. Continuous working

**Features:** 6 test channels are available, so that 3 specimens can be done in one test, at the same time, the balance 3 are backup test channels. Every test channel is independent while voltage could be adjusted according to requirement.

## STDM-2 Concrete Elastic Modulus Testing Apparatus



**Application:** it is mainly used to measure elastic modulus of concrete prism/cylinder specimen against static force.

1. Dial gauge: 1mm, 0.001
  2. Distance from upper ring center to bottom ring center: 150mm
- Specimen size:  $\Phi 150 \times 300$ mm, 150x150x300mm, 100x100x300mm

## ZC3-A Digital Concrete Vibro Consistometer (VeBe Time Consistometer)



**Application:** determination of consistency and workability of concrete.

Vibro Consistometer comprises vibrating table, container, slump cone, graduated rod and plate. For 220-240 V AC, 50 Hz, 1 ph.

**Main technical parameter:**

1. Slump cone: 100 $\pm$ 2mm; inner diameter at bottom: 100 $\pm$ 2mm; cone height: 300 $\pm$ 2mm
2. Container inner diameter: 240 $\pm$ 5mm; inside height: 200 $\pm$ 2mm
3. Vibrator frequency: 3000 $\pm$ 200hit/min.
4. Amplitude of the vibration table: 0.5 $\pm$ 0.10mm
5. Engine power: 250W
6. Timing range: 0.1-99.9sec

## STLD-4 Concrete Chloride Diffusion Coefficient Tester



- 1.Voltage: 220V
  - 2.Output voltage: DC0-60V
  - 3.Voltage precision:  $\pm 0.1V$
  - 4.Current range: 0-500mA
  - 5.Current precision:  $\pm 0.1mA$
  - 6.Temperature range: -55 to 125°C
  - 7.Temperature precision: 0.0625°C
  - 8.Operation time precision: < 1min
- Voltage difference between no-load and full load:  
 $\pm 0.1V$

## STZBY-2 Automatic Vacuum Saturation Tester



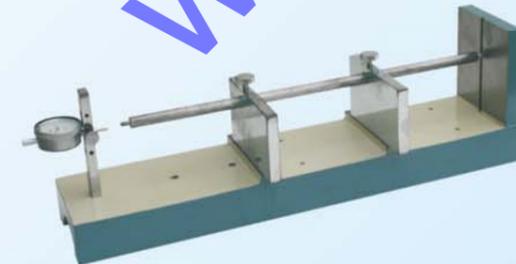
1. Working voltage: AC 220V $\pm 5\%$
2. Vacuum saturation, vacuum water-saturated and saturated time are to be set freely (vacuum saturated time and vacuum water-saturated time adjust range: 0-16 hours, atmospheric water-saturated time adjustment range: 0-28 hours)
3. Vacuum degree: 100-200Pa
4. Stainless steel for whole structure; organic material for saturation container, transparent and with good tightness.
5. Water admission, drainage, air admission and evacuation are performed automatically.

## NJ-4000 Digital Concrete Resistivity Meter



1. Testing range: 0-2000K $\Omega$ ;
2. Precision: 1 K $\Omega$ ;
3. Display stability:  $\pm 1 K\Omega$ ;
4. Imported resistivity: 100 M $\Omega$ ;
5. PC communication: baud rate 2400
6. Weight: 0.4kg
7. Liquid crystal size: 128 $\times$ 128
8. Max. Measurement: 2000 K $\Omega$

## STHSP-540 Concrete Shrink Swelling Meter



1. Dial gauge: 1mm/0.001mm
- Measuring rod length: 540 $\pm$ 0.2mm

### STTLD-1 Slump Cone Set



The Apparatus consists of one slump cone with handles and foot pieces.

### STTLD-2 Stainless Steel Slump cone



Made from Stainless Steel Material  
The Apparatus consists of one slump cone with handles and foot pieces. The slump cone has internal dimensions dia. 200mm at base, dia. 100m at top, and 300mm height. Foot pieces can be fixed to the clamps on the base plate (500x400mm). One graduated steel rod 16mm dia. x 600mm long, rounded at one end and graduated ruler in mms is also supplied.

### STTLD-3 Stainless Steel Slump Cone Set



The Apparatus consists of one slump cone with handles and foot pieces. The slump cone has internal dimensions dia 200mm at base, dia 100m at top, and 300mm height. Foot pieces can be fixed to the clamps on the base plate(500x400mm). One graduated steel rod 16mm dia x 600mm long, rounded at one end and graduated ruler in mms is also supplied. Supply thick base plate.

### STTLD-4 Stainless Steel Slump Cone Set



Slump cone cylinder:  
1. Up diameter: 100mm  
2. Below diameter: 200mm  
3. Height: 300mm  
Tamping rod:  
1. Diameter: 16mm  
2. Length: 600mm

## STHMS-1 Concrete Mixture Pressure Weepage Tester



**Description:** This apparatus used for doing pressure weepage test of concrete which particle size no more than 40mm.

1. Max. range of pressure meter: 6Mpa
2. Division value: no high than 0.1Mpa
3. Inside diameter of cylinder:  $125 \pm 0.2$ mm
4. Inside diameter:  $200 \pm 0.2$ mm
5. Pressure of working piston: 3.2Mpa
6. Nominal diameter: 125mm
7. Aperture size: 0.315mm

## Concrete Vibrator



Cylinder Mould  
 $\Phi 150$ mm $\times 300$ mm  
 $\Phi 100$ mm $\times 200$ mm



Cylinder Mould  
 $\Phi 150$ mm $\times 150$ mm



Concrete Cube Mould  
150 x 150 x 150 mm  
10kg



15kg  
Split Cube Mould



150 x 150 x 150 mm  
16kg  
Quarter Cube Mould

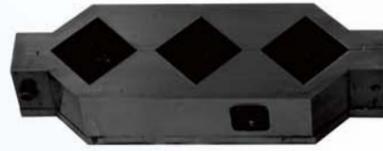


Concrete Cube Mould  
150 x 150 x 150 mm  
16kg



**Cement Mortar Mould**

70.7x70.7x70.7mm(Cast Iron)  
50mmx50mmx50mm(Steel Production)



**Cement Mortar Mould**

50mmx50mmx50mm(Steel Production)(Three gang)



**Crack Resistance Mould**



**Cement Mortar Mould**  
**40×40×160mm**

Material: Casted iron , three gangs  
Features: added thickness, polish settlement,  
free of corrosion, equipped with testing head ,  
basement plate



Mortar Mould  
Size: 25.4X25.4X285mm  
Used to do basic active test of aggregate



**Plastic Mould**

Available size: 100x100x100mm,  
150x150x150mm, 150x150x300mm,  
150x150x550mm, 70.7x70.7x70.7mm in triplicate

## Cylinder Mould



Made of cast iron. Diameter is 150mm, height is 300mm. There are totally 6 nuts connecting 3 parts (two half and one base) to one cylinder mould.  
Wall thickness at flange is 17mm and 10mm at body.  
Net weight is 18kg.

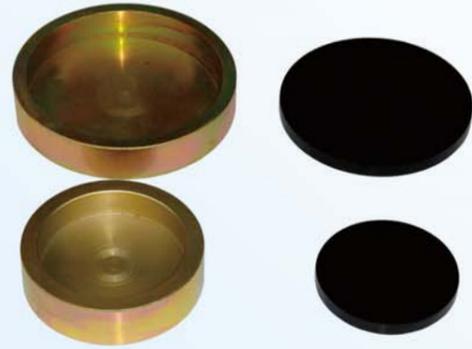
Φ 150mm×300mm, Φ 100mm×200mm



**Concrete Split Clamp**



**Concrete Flexure Clamp**



Retainer

Capping Pad

6inch  
4inch



Ultrasonic Cleaner

### STG-1 Cutting Machine



CE

1. Power: 2.2KW
  2. Rotation: 2800rpm
  3. Diamond blade: dia 350mm, thickness 3mm
  4. Installment hole: dia 25.4mm
  5. Max. cutting length: 600mm
  6. Max. cutting depth: 80mm
- Cutting width: 4mm

### STG-2 Enclosed Automatic Universal Cutting Machine



CE

1. Diamond blade: dia 450mm
2. Max. dimension of cutting specimen:  
230mm×230mm×400mm
3. Power: 4KW

Features: Double-blades cutting, automatic cutting

Manufacturing License for China  
Industrial Products  
(XK07-003-00014)

### STG-3 Enclosed Automatic Universal Cutting Machine (whole crust stainless steel)



CE

1. Diamond blade: dia 450mm
2. Max. dimension of cutting specimen:  
230mm×230mm×400mm
3. Power: 4KW

Features: Double-blades cutting, automatic cutting, stainless steel chassis

## STMP-100 Concrete Grinding Machine



1. Diameter of grinding specimen: 50mm, 75mm, 100mm
2. Height of grinding specimen: 47.5-215mm
3. Grinding wheel rotation: 3400rpm
4. Motor power: 1.7KW/2.6KW
5. Dimension: 550x420x700mm
- Weight: 52kg/65kg

## STMP-200 Electric Double-Abrasive Grinding Machine



Manufacturing License for China  
Industrial Products  
(XK07-003-00014)

- Application:** the grinding machine is to prepare rock and concrete specimen, in cubes and cylinder forms.
1. Automatic input: 0.04- 0.12mm
  2. Cubes to be prepared: 50×50mm-150×150mm
  3. Cylinder specimens to be prepared: Φ50-Φ120
  4. Standard precision
  - Degree of finish: Ra 3.2
  - Degree of flatness: ±0.05mm (within 50 range)
  5. Grinding wheel: dia 200mm
  6. Cooling by connecting to piped water.

## STZC-100 Rock Core Drilling Machine



1. Diamond bit: diameter 50-100mm
2. Max. drilling depth: 400mm
3. Max. drilling diameter: 100mm
4. Main motor power: 2.2KW
5. Lifting motor: DC36v/250W
6. Continuous working

## STCPZ-1 Rock Lateral Restraint Swelling Rate Testing Meter



1. Dial gauge: 1mm, 0.001mm
2. Precision: 0.001mm
3. Glass tank: 95mm(L)×95mm(W)×85mm(H)
4. Metal ring: dia50mm×55mm(H)
5. Specimen size: dia50×20mm
6. Dimension: 200×100×195mm

## STPZL-55 Rock Free Swelling Rate Testing Meter



1. Dial gauge: 1mm, 0.001mm
2. Precision: 0.001mm
3. Glass tank: 95mm(L)×95mm(W)×85mm(H)
4. Porous disc: dia50mm/50×50mm
5. Specimen size: dia50×20mm/50×50mm
6. Dimension: 200×100×195mm

## STNBJ-2 Slake-Durability Testing Apparatus



1. Power: 90W
2. Voltage: 380V, 3 phases
3. Rotation: 20rpm
4. Cylindrical screen drum: dia 140mm
5. Specimen: 40-60g/pc x 10 pcs, grinded in round form by abrasive disk or abrasive cloth.

## STNBJ-1 Slake-Durability Testing Apparatus



1. Power: 90W
  2. Voltage: 380V, 3 phases
  3. Rotation: 20rpm
  4. Cylindrical screen drum: dia 140mm
  5. Specimen: 40-60g/pc x 10 pcs, grinded in round form by abrasive disk or abrasive cloth.
- Dimension: 1070x500x1200mm, weight: 100kg

## STPZY-40 Rock Swelling Pressure Testing Apparatus



1. Max. capacity: 50000N
  2. Precision: > grade 1
  3. Compression space: 170mm
  4. Upright posts clearance: 165mm
  5. glass reinforced plastic ring: dia 141mm×66mm(H)
  6. Metal ring: dia50/60mm×55mm(H)
- Dimension: 320×320×500mm

## STDZ-1 Point Load Apparatus



**Application:** Portable instrument which can be used in both the laboratory or in situ to determine the rock strength index of rock samples or cores. The values required for the calculation of the rock strength index are failure load and distance between the conical points.

**Parameters:**

1. Max work pressure: 60Mpa
2. Piston diameter: dia.35mm
3. Piston area: 9.62cm<sup>2</sup>
4. Dimension: 380x300x620mm
5. weight: 85kg

## STDZ-2 Digital Point Load Tester



**Application:** Portable instrument which can be used in both the laboratory or in situ to determine the rock strength index of rock samples or cores. The values required for the calculation of the rock strength index are failure load and distance between the conical points.

**Parameters:**

1. Max. work pressure: 60Mpa
2. Piston diameter: dia.35mm, stroke: 160mm
3. Piston area: 9.62 cm<sup>2</sup>
4. Capacity: 100KN
5. Resolution: 0.1KN
6. Peak value memorized

## STDZ-3 Digital Display Point Load Tester



**Application:** Portable instrument which can be used in both the laboratory or in situ to determine the rock strength index of rock samples or cores. The values required for the calculation of the rock strength index are failure load and distance between the conical points.

**Parameters:**

1. Max work pressure: 100KN
2. Peak value memorized
3. Stroke: 100mm
4. Resolution: 0.1KN
5. Max data saving: 120

Features: split type lifting jack; protection cover made by organic glass prevent pollution to environment.

## NJ-160A Cement Paste Mixer



1. Low revolution speed of the mixing blade: 62±5 rotate/ min
2. High revolution speed of the mixing blade: 125±10 rotate/ min
3. Low rotation speed of the mixing blade: 140±5 rotate/ min
4. High rotation speed of the mixing blade: 285±10 rotate/ min
5. Power of motor: High speed: 370W slow speed: 170W

## STJJJ-6 Cement Paste Mixer



1. Low revolution speed of the mixing blade:  
62±5 rotate/ min
  2. High revolution speed of the mixing blade:  
125±10 rotate/ min
  3. Low rotation speed of the mixing blade:  
140±5 rotate/ min
  4. High rotation speed of the mixing blade:  
285±10 rotate/ min
  5. Power of motor: High speed: 370W slow speed: 170W
- Features: closed type, no pollution to environment

## JJ-5 Cement Mortar Mixer(New Standard)



- Application:** It is an equipment to test strength of cement mortar and complies with the test method ISO679:1989.
1. Rotation: low speed 140±5 r/m; high speed 285±10 r/m;
  2. Revolution: low speed 62±5 r/m; high speed 125±10 r/m;
  3. Voltage: AC380V
  4. Power of motor: 0.370/0.55KW 8/4P

## STJBJ-6 Cement Mortar Mixer



Complies to ISO679: 1989.

Speeds (rpm)	Paddle	Mixing head
Low	140±5	62±5
High	285±10	125±10

1. Bowl capacity: 5L;
2. Voltage: AC380V;
3. Power: 0.370/0.55KW;

**Features:** closed type, no pollution to environment

## ZT-96 Cement Jolting Table(New Standard)



**Description:** This machine consists of a mould table seated on a rotating cam driven at 60 revolutions per minute. The apparatus is supplied with a switch box, incorporating a push button start/stop control, and automatic stop control at end of test.

**Parameters:**

1. Complies to ISO679: 1989;
2. Jolting weight: 20kg;
3. Drop: 15mm; 3mm
4. Jolting: 60 revolutions per minute
5. Table tray weight(Include link lever): 13.75kg;
6. Voltage: AC220V
7. Dimension: 1040x260x360mm, weight: 61kg

## STZST-8 New Standard Cement Jolting Table



CE

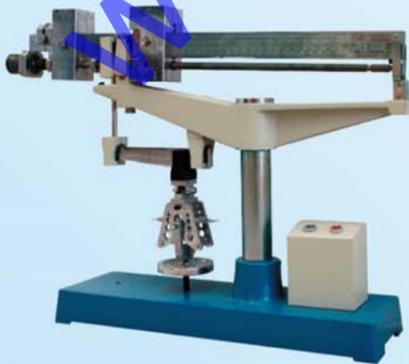
**Description:** This machine consists of a mould table seated on a rotating cam driven at 60 revolutions per minute. The apparatus is supplied with a switch box, incorporating a push button start/stop control, and automatic stop control at end of test.

**Parameters:**

1. Complies to ISO679: 1989;
2. Drop: 15mm, 3mm;
3. Jolting: 60 revolutions per minute
4. Table tray weight(Include link lever): 13.75kg;
5. Voltage:AC220V

**Features:** Closed type jolting table, clean operation and environment protection

## STDKZ-5000 Electric Antiflex Testing Machine



CE

**Application:** test antiflex strength of cement mortar and other non-metal brittle materials.

**Specification:**

- 1.Max. lever ratio: 10:1
  - 2.Double lever ratio: max.50:1
  - 3.Loading speed: 50N/S
  - 4.Capacity: 1000N for single lever, 5000N for double lever
  - 5.Precision:  $\pm 1\%$
- Supporting roller space:  $100 \pm 0.1\text{mm}$

## STDKZ-5000 Digital Electric Antiflex Testing Machine



CE

**Application:** test antiflex strength of cement mortar and other non-metal brittle materials.

**Specification:**

- 1.Measuring range: 0-10KN
- 2.Resolution: 0.001KN
- 3.Loading speed: 50N/S

**Feature:** Digital display, peak value saved and printed automatically.

## FSY-150 Cement Negative Pressure Lab Sieve (Eco-friendly)



**Application:** Lab sieve is widely used to determine cement fineness. Air flow takes the role as dynamic media. The whole system is under negative pressure, specimen under test will be in flow state under the action of airflow sprayed by the rotating gas nozzle, and travel along with airflow. Fine particles whose size smaller than sieve aperture are extracted away, leaving particles whose size larger than sieve aperture.

**Specification:**

1. Voltage:AC220V
2. Power:600W
3. Feeding: 25g
4. Fineness range: 0.030~1.000mm
5. Sieve time range: 0-599sec
6. Negative pressure: 4000-6000 Pa
7. Noise < 75db

## STQM-1 Laboratory Cement Ball Mill



CE

**Application:** Laboratory Ball Mill is used for mixing and grinding purpose in all kinds of research laboratories.

**Specification:**

Drum size:  $\phi 500 \times 500 \text{mm}$

Rotation: 48RPM

Load capacity of abrasive: 100kg

Feeding capacity: 5kg

Weight of abrasive (Steel ball and unequal steel): 10kgs

Power of motor: 1.5Kw

Voltage: 220V

Frequency: 50HZ

## FZ-31A Le Chatelier Cement Water Bath



CE

**Structure:** Double wall with stainless steel tank inside and rack.

**Technical parameters:**

1. Effective capacity: 3L
2. Heating time controlling: 3 hours
3. 2 Heating elements: 1KW and 3KW, guarantee that the water reaches boiling point within approx. 30 minutes, after which a timer cuts out the more powerful element so that the task of maintaining the water temperature is left to the second heating element.
4. Power: AC220V, 50HZ, single phase
5. Dimension: 510x300x400mm

## FZ-31B Le Chatelier Cement Water Bath



CE

1. Effective capacity: 3L
  2. Heating time controlling: 3 hours
  3. 2 Heating elements: 1KW and 3KW, guarantee that the water reaches boiling point within approx. 30 minutes, after which a timer cuts out the more powerful element so that the task of maintaining the water temperature is left to the second heating element.
  4. Power: AC220V, 50HZ, single phase
- Features:** clean type by expelling steam out through the pipe

## STNLD-3 Cement Mortar Electric Flow Table



CE

**Application:** the flow table is used for determining the flow of mortar. The cam system driven by a motor, the control panel with digital counter automatically stops the apparatus at the end of the test cycle.

**Technical Parameter:**

1. Total Weight of Pulsatory Part:  $4.35 \text{Kg} \pm 0.15 \text{Kg}$
2. Drop height:  $10 \text{mm} \pm 0.2 \text{mm}$
3. Diameter of round table:  $300 \text{mm} \pm 1 \text{mm}$
4. Flow mould: 70mm and 100mm diameter X 60mm deep.
5. Tamper: 20mm diameter, 200mm long;
6. Drop times of every cycle: 30 times
7. Drop period: 30 seconds
8. Power 220V 50Hz

## DBT-127 Specific Surface Tester



1. Inside diameter of permeability cell :  $\Phi 12.7 \pm 0.05 \text{mm}$
2. Height of sample in the cell :  $15 \pm 0.5 \text{mm}$
3. Perforated disk : 35holes
4. Diameter of the hole : 1-0.10mm
5. Disk thickness : 0.1-1mm
6. Motor voltage: 220V
7. Motor power consumption: less than 15W
8. Net weight: 3.2kg
9. Size:  $460 \times 220 \times 170 \text{mm}$

## STBBY-5 Automatic Specific Area Tester



1. Voltage: 220V
2. Timing range: 0.1s-500s
3. Timing precision: 0.2s
4. Testing precision: better than 1%
5. Temperature range:  $8-34^\circ\text{C}$

## STWKY-1 Vicat Apparatus STWKY-2 Vicat Apparatus



STWKY-2 STWKY-1

- Needle:** 1mm diameter and 50mm long;
- Mould:** 70mm base diameter and 60mm top diameter, 40mm long;
- Plunger** diameter 100mm and weight 300g, scale graduated in millimeters.

## LD-5 Le Chatelier Mould Tester



- Application:** It used to determine the positive flexibility of Le chatelier mould. Put standard cement paste into le chatelier mould fully, curing and boiling on standard time, then test its swell value.
- Measuring range:**  $\pm 25 \text{mm}$

## STYZF-1 Autoclave



**Application:** It used to test strength of cement concrete specimen.

**Specification:**

1. Max. Pressure: 100Kpa
2. Max. Temperature: 120℃
3. Voltage: AC220V
4. Equip ABS Controller

## STYZF-2 Autoclave



**Application:** It used to test magnesia and stability of cement.

**Specification:**

1. Max. Pressure: 2-2.2Mpa
2. Max. Temperature: 216℃
3. Heating power: 0.6KW/1.2KW
4. Adding distilled water: 8.5L
5. Equip ABS Vertical control cabinet

## STBCY-1 Cement Comparator



**Application:** The comparator determines dry shrinkage rate of cement mortar in every age, and swelling rate of expanding cement in every age.

**Specification:**

1. Dial gauge: 10mm
- Valid testing space: 156-300mm

## STCL-D Chloridion Tester



1. Heating power: 1000W
2. Temperature control range: 250-260℃
3. æ velocity: 100-200m/min.
4. Distilling time: 10-15min.
5. Weight: 16kg

## Cement Sampler



Length: 500mm, 1500mm

## Cement Frustum Round Mould



Updiameter: 36mm

Bejow diameter: 60mm

Height: 60mm

## SRJX Electric Resistance Furnace



**Application:** the resistance furnace is batch type furnace. It is applied to elemental analysis in laboratory, industrial and mining enterprises and scientific research department, and to heating treatment including quench, anneal and temper for small steel things.

**Specifications:**

1. Rated power: 2-8KW
2. Rated voltage: AC220V or AC380V
3. Rated temperature: 950°C-1300°C
4. Inner Size: 200mmx120mmx80mm
5. Outside Size: 625mmx445mmx530mm

**Features:** temperature rises rapidly with less heat loss; ABS controller.

## STSRJ-2 Conjoined Electric Resistance Furnace



**Application:** the resistance furnace is batch type furnace. It is applied to elemental analysis in laboratory, industrial and mining enterprises and scientific research department, and to heating treatment including quench, anneal and temper for small steel things.

**Specifications:**

1. Rated power: 2-8KW
2. Rated voltage: AC220V or AC380V
3. Rated temperature: 950°C-1300°C
4. Inner Size: 200mmx120mmx80mm
5. Outside Size: 625mmx445mmx530mm

**Features:** temperature rises rapidly with less heat loss.

### PHS-25 PH Meter



Used to test PH value of water solution

1. Apparatus grade: 0.1grade
2. Measuring range: 0.0-14.0PH
3. Measuring precision: 0.1PH
4. Stability: 0.1PH/3h

### Stainless Steel Distiller



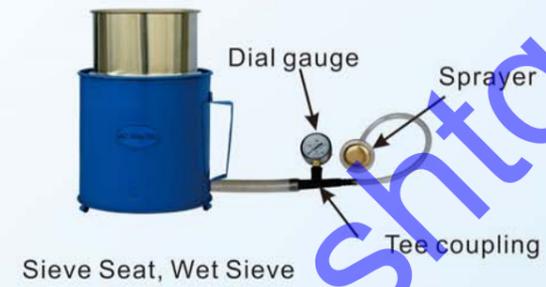
Spec.	5L/hour	10L/hour	20L/hour
Water yield	5 liter per hour	10 liter per hour	20 liter per hour
Consumed power	4.5KW	7.5KW	15 KW
Input voltage	220V	380V	380V



250ml Le Chatelier Flask



Volumetric Flask  
Specifications: 1000ml, 500ml



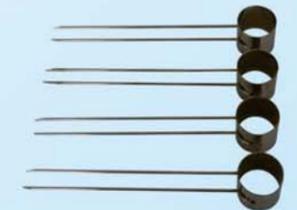
Sieve Seat, Wet Sieve



Cement Specimen Tank



Buret , Iron Stand



Le Chatelier Mould

## STSJ-15 Mortar Blender



1. Input volume : 28L
2. Output volume : 15L
3. Planetary speeds ( anticlockwise ):  $60 \pm 2r/min$
4. Beater speeds:( clockwise):  $80 \pm 4r/min$
5. Distance from paddle end to mixing wall: 2.5+  
/- 0.5mm
6. Power supply: 1500W, 380V
7. Dimension: 800x600x900mm
8. Weight: 100kg

## STJBJ-15 Portable Concrete Mortar Mixer



1. Capacity of bowl : 140L/5CF
2. Diameter of bowl : dia. 24
3. Output power : 220kw3600rpm
4. Max. torque : 3. 2n. m/3000rpm
5. Mortor speed : 3600
6. Capacity of oil tank : 1. 4L

## STSC-145 Digital Display Motar Consistency Meter



**Application:** determine mix proportion, and control motar consistency in the construction process so that water quantity consumed could be adjusted.

**Parameters:**

1. Sink depth: 0-14.5cm
2. Sink volume: 0-229.3cm<sup>3</sup>
3. Total weight of cone and guage: 300±2g
4. Digital display guage range: 0-150mm

## STSJM-2 Mortar Pressure Weepage Tester



1. Inside diameter of cylinder: 50mm
2. Cylinder height: 200mm
3. Outlet diameter: 10mm
4. Compression strength: higher than 0.8Mpa

### STSS-15 Digital Mortar Permeability Testing Machine



1. Allowable max. working pressure: 1.5Mpa
2. Working: Automatic and manual voltage regulation
3. Specimen: 6pcs
4. Specimen size: up inner diameter: 70mm; below inner diameter: 80mm, height: 30mm
5. Displacement pump: plunger diameter: 10mm; plunger stroke: 10mm; frequency of back and forth: 130times/min; flow: 0.1l/min.

### STSS-15S Digital Mortar Permeability Testing Machine



1. Allowable max. working pressure: 1.5Mpa
2. Working: Automatic and manual voltage regulation
3. Specimen: 6pcs
4. Specimen size: up inner diameter: 70mm; below inner diameter: 80mm, height: 30mm
5. Displacement pump: plunger diameter: 10mm; plunger stroke: 10mm; frequency of back and forth: 130times/min; flow: 0.1l/min.

### STZKS-100 Mortar Setting Time Tester



1. Test time: 0-100N
2. Precision: 1%N
3. Division: 0.5N
4. Max. stroke: 50mm
5. Needle section: 30mm<sup>2</sup>
6. Inner diameter of mould: DIA.140X75mm

### STBSL-1 Water Retention Rate Tester



- Rigid mould: round, inner diameter 100mm±1mm; valid depth: 25mm±1mm
- Rigid base: round, no hole, diameter 100mm±5mm; thickness: 5mm±1mm

## STFCD-1 Mortar Layering Degree Tester



**Application:** It used to test the consistency stability of mortar when transportation and keeping.

**Specification:**

- 1.Inner Height: 15cm
  - 2.Height of up part: 20cm
  - 3.Height of below part: 10cm
- Below part with base plate, up and below connect by bolt.

## Mortar Strength Detector



1. Penetration power: 800±8N
2. Division value: 0.01mm
3. Testing bolt length: 40±0.10mm
4. Testing bolt diameter: 3.5mm
6. Testing bolt taper: 45°

## Mortar Density Cylinder



**Application:** Used to test mass density of compacting mortar.

Inner diameter: 108mm

Height: 109mm

## STZSY-1 Geosynthetic Materials Comprehensive Testing Apparatus



**Application:** Measure friction characteristics between soil and geotechnical fabrics interfaces, and perform tensile, tearing, break and pierce tests for geotechnical fabrics.

**Parameters:**

1. Precision motor for horizontal shearing and large power motor for vertical stretching; variable speed;
2. Capacity: 0-10KN
3. Vertical loading: 100Kpa, 200Kpa, 300Kpa, 400Kpa
4. Horizontal shearing rate: 0.02-3mm/min
5. Horizontal shearing displacement: 0-30mm
6. Working voltage: AC380V±10% or AC220V ±10%

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## ST-1 Geosynthetic Materials Vertical Permeability Testing Apparatus



Patent product

Complies to ISO 11508:1999

**Application:** determine vertical permeability properties of geotextile.

**Structure:** The machine is composed of a suction water head, a lower permeable bin, specimen gripping system, water head adjusting system and water head measuring system. Grips are made from high quality alloy and organic material with good air tightness. Stainless steel working table.

## ST-2 Geosynthetic Materials Horizontal Permeability Testing Apparatus



Patent product

**Application:** determine capability of water draining in horizontal direction for geosynthetic materials and plastic drainage boards.

**Structure:** The machine is composed of a water supply valve, upstream and downstream containers, overflow pipes, pressure measuring pipes, rubber rings, latex film, pressure gauge, pressure reduction valves, adjusting pipes and cylinders. Grips are made from high quality alloy and organic material with good air tightness. Stainless steel working table.

## STYDY-1 Geosynthetic Materials Silting Apparatus



It's applied to perform Geosynthetic Materials filter test, check out whether geosynthetic materials, as a filter of certain soil, will cause disallowed silt accumulation. Permeation clamps are made from alloy metal organic materials, with good tightness and convenient operation.

## STGM-2 Geomembrane Impervious Apparatus



Patent product

**Application:** The apparatus is designed for impervious testing of geomembrane, with automatic pressure load, convenient in operation.

**Specification:**

1. Max. pressure: 3.5 Mpa;
2. Specimen diameter: 198mm;
3. Inner diameter of porous plate: 160mm;

**Features:** stainless steel working table, 3 tests can be done at the same time.

## STPC-1 Drain-board Drainage Test Apparatus



Patent product

**Application:** It's used to determine perviousness of plastic drainage plate;

**Features:** Clamp made by alloy material and organic material, with good tightness; stainless steel working table; easy operation.

## STJY-5 Direct Shear Apparatus For Geosynthetic Materials



**Application:** The instrument measures friction characteristic between soil and geosynthetic materials interfaces

**Specification:**

1. Horizontal shearing performed by high precision stepper motor
2. Measuring range: 0-10KN
3. Vertical loading: 100Kpa, 200Kpa, 300Kpa, 400Kpa
4. Horizontal shearing rate: 0.02-3mm/min
5. Horizontal shearing displacement: 0-30mm
6. Voltage: 220V

## STDSY-1 Geosynthetic Materials Bursting & Puncture Tester



CBR bursting test complies to DIN 54307 and puncture test complies to ASTM D4833

**Application:** It is applied in CBR bursting testing of geosynthetic materials, determine CBR Bursting strength and puncture strength of those materials.

**Specification:**

1. Max load: 10000N
2. Measuring range: 0-10000N
3. Lift speed: 0-110mm/min
4. Voltage: 380V±10% or 220V±10%
5. Power of the apparatus: 550W

**Feature:** Stainless steel working table

## STHDY-1 Geosynthetic Material Thickness Testing Apparatus



The apparatus is use to determine thickness of geosynthetic material thickness under different pressure. Measurement by adding weights on lever. Lever ratio is 1:6. Vertical distance between base plate and presserfoot is measured by a displacement transducer.

## STSLY-2 Geosynthetic Materials Tearing Testing Apparatus



**Application:** It's used to determine tearing strength of geosynthetic materials.

**Specification:**

1. Max load: 10000N
2. Measuring range: 0-10000N
3. Rising: 20-110mm/min
4. Voltage :380V or 220V, 3 phases
5. Power: 550W

**Feature:** Stainless steel table board.

## STKJY-1 Geosynthetic Materials Equivalent Aperture Tester



1. Amplitudes(mm): 8
2. Oscillation: 220 times/ min
3. Vibration strike: 150 times/ min
4. Gyration Radius (mm): 12.5
5. Motor Power:0.37 KW
6. Revolutions:1400 rpm
7. Dimension: 600(L)×400(W)×880(H)
8. Weight(kg):130

**Features:** stainless steel table top, ABS vertical controller

## STKJY-2 Geosynthetic Materials Equivalent Aperture Tester(Wet sieve method)



**Application:** it determines aperture sizes of single layer geosynthetic fabric and similar products by wet sieve method.

**Specification:**

1. Sieve inner diameter: 130mm
2. Vibration frequency: 50Hz
3. Vibration amplitude: 1.5mm
4. Spray nozzle pressure: 300Kpa
5. Water yield: 0.5L/min

**Features:** stainless steel table top, ABS vertical controller

## STLC-1 Drop Hammer Penetrate Tester (Cone drop test, Dynamic perforation test)



Complies to ISO/DIS 13433

**Application:** It's mainly applied to determine penetration resistance of geosynthetic materials against steel cone falling from fixed height.

**Specification:**

1. Inner diameter of the Annular clamp:  $\varnothing 150\text{mm} \pm 0.5\text{mm}$
2. Drop:  $500\text{mm} \pm 2\text{mm}$
3. Cone angle:  $45^\circ$ , Max. diameter:  $\varnothing 50\text{mm}$
4. Weight:  $1000\text{g} \pm 5\text{g}$
5. Cone's Max. diameter:  $\varnothing 50\text{mm}$
6. Weight:  $600\text{g} \pm 5\text{g}$

### STSP-1 Plastic Drainage Core Strip Pressure and Yield Strength Testing Machine



Equip sampler, diameter is 61.8mm or 79.8mm

Can add pressure 1, 50, 150, 250, 350, 450Kpa

### STZKY-1 Geosynthetic Materials Antioxidation Testing Chamber



1. Temperature: room temperature-150°C,

precision: 1°C

2. Specimen: 20pcs

3. Controlled time: 1-9999h

### STZWX-2 Ultraviolet Aging Testing Chamber



1. Temperature range: RT+10°C--+70°C

2. Temperature fluctuation: ±1°C

3. Temperature regularity: ±3°C

4. Humidity range: no less than 95RH

5. Centre distance of two light: 65-C70mm

6. Distance of specimen and light: 50±2mm

7. Light source: UVA-340 or UVB-313

8. Wavelength: 315-400mm, 280-315mm

### STQY-2 Disc Sampler



1. Sampling area: 10000mm<sup>2</sup>

2. Height of blade: 0-25mm adjustable



**Slicing Machine**

It is applied to prepare specimen for tension test of waterproofing materials



**Thickness Gauge**

## STBTY-3 Waterproofing Asphalt Apparatus



**Application:** The apparatus measures water impermeability property of asphalt linoleum and elastic asphalt waterproof roll. Pressure is exerted by electric hydraulic pump. Convenient in operation.

**Specification:**

1. Power voltage: AC220V
2. Max.test pressure: 0.30Mpa
3. Sample size:15×150mm
4. Waterproof plate inner diameter: Φ92mm
5. Test standard water temperature: 20℃
6. Accept 3 pcs specimen in one test

## STBTY-2 Waterproofing Asphalt Apparatus



**Application:** The apparatus is used for measuring water impermeability property of asphalt linoleum and elastic asphalt waterproof roll, pressure is exerted by electric air pump, Convenient in operation.

1. Power voltage: AC220V
  2. Working voltage: 12V
  3. Power: 60W
  4. Test specimen quantity: 3pcs (one group)
  5. Working pressure: 0.1Mpa
  6. Max. pressure: 0.6Mpa
- 999minute free setting  
Automatic alarm when finish test

## STRXY-4 Digital Display Low Temperature Flexibility Tester



- 1.Input power: 125W, 220V AC
- 2.Test temperature: -20℃, -25℃ or can free setting
- 3.Resolution: 0.1℃, precision: 0.2%
- 4.Specimen: Thickness 3, 4, 5mm; 10pcs (150X25mm)
- 5.Test speed: 360±40mm/min
- 6.Time setting: 60min (free setting from 1s to 99h)

## STNJJ-3 High Speed Paste Mixing Pump



1. It used to cement paste mixing.
2. It is better than paste mixing machine, it is suit with the principle of large cement mixing pump.
3. It can automatic keep temperature when working.
4. Working voltage: AC380V

## STNJJ-2 Cement Paste Mixer



Patent product

1. It used to cement paste mixing.
2. Can display rotation speed, highest speed is 10000RPM
3. Can adjust speed.
4. Lift and down easily.

## STNJJ-1 Cement Paste Mixer



1. It used to cement paste mixing.
2. Working voltage: AC220V
3. Speed: Higher than 1000RPM

## STYJY-1 Cement Paste Filling Degree Tester Pump



**Application:** Use to perform pressure filling degree test, used to cement paste casting in pressure.

**Specification:**

1. Pressure range: 0.5-1.0Mpa
2. Precision: 0.05
3. Cement slurry quantity of one time: 2L
4. Working voltage: AC220V

## STGMY-1 Steel Wire Interstitial Weepage Tester



**Application:** Used to test interstitial weepage of cement paste on steel wire action.

**Specification:**

1. Mud volume: 800ml
2. Height: 160mm
3. Diameter: 100mm

## STYLY-1 Pressure Weepage Tester



**Application:** Used to test cement paste weepage of Permeable mesh sheet on pressure action.

**Specification:**

1. Pressure: 0.5-0.7Mpa
2. Container diameter: 50mm, capacity: 400ml
3. Mesh sheet spec: 0.08mm

## STSC-1 Cement Paste Flow Value Tester



**Application:** Used to test mud flow value and workability.

**Specification:**

1. Standard quantity: 1725±5ml
2. Standard time: 8.0S±0.2S

## STMSL-1 Cement Paste Free weepage Tester



**Application:** Used to test cement paste weepage and swell value in standard container.

**Specification:**

1. Organic glass container with sealed cap.
2. Height: 12-13cm
3. Diameter: 10cm

## STCYD-1 Cement Paste Filling Degree Tester



**Application:** Used to estimate stability of cement paste on constant pressure.

**Specification:**

- 1.Inner diameter: 40mm transparent organic glass pipe
- 2.Length: 0.5m+0.5m
- 3.Angle of pipe: 120degree

## STCJY-1 Sedimentation Rate Tester



**Application:** Used to estimate flow stability and constant pressure segregability of cement paste.

Capacity: 5L, 2L

5L: dia20cmX20cm

2L: dia16cmX10cm

## STYBZ-1 Cement Paste Vertical Swelling Pressure Tester



**Application:** Used to test shrinkage compensating performance of cement paste, quantitative test vertical swelling pressure of cement paste.

**Specification:**

- 1.Mould: diameter: 100mm; height: 100mm; steel cylinder mould
- 2.Dial gauge: digital display, precision: 0.01mm
- 3.Constant temperature and content humidity: 20±2℃, 60±2℃

## DSC3 Level



- 1.Image: reverse
- 2.Magnification: 32x
- 3.Objective aperture: 42mm
- 4.Field of view: 1°26'
- 5.Minimum range of visibility: 2.5M
- 6.Multiplication constant: 100
- 7.Additive constant: 0

## DSC-232 Autaset Level



1. Image: erect
2. Magnification: 32x
3. Objective aperture: 38mm
4. Field of view: 1°26'
5. Minimum range of visibility: 0.5M
6. Multiplication constant: 100
7. Additive constant: 0

## DJ6E-1/2 Theodolite



- Magnification: reverse image 25.9x, erect: 28x
- Effective aperture: 36mm for reverse image, 40mm for erection
- Field of view: 1°30' for reverse image, 1°20' for erection
- Minimum Focusing Distance: 1.5m for reverse image, 2m for erection
- Stadia ratio: 100
- Stadia constant

## NTS-352L Total Station



- Max. range: Reflectorless: 300m 1p: 5000m
- Measuring method: Absolute continuous
- Measuring Time: 1s, tracking time: 0.5s
- Magnification: 30x
- Image: erect
- Accuracy: 1P: 2+2ppm \ No prism: 5+3ppm

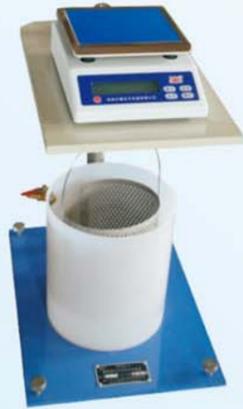


Weight



Weight

## STSJ-1 Digital Hydrostatic Balance



**Application:** the hydrostatic balance is used to determine the specific gravity of asphalt, concrete, gravel and pebbles weight in water.

Balance capacity: 5000g/0.1g

**Features:** Working table can be raised and lowered, and moved to left or right.

## STSJ-2 Digital Hydrostatic Balance



**Application:** the hydrostatic balance is used to determine the specific gravity of asphalt, concrete, gravel and pebbles weight in water.

Balance capacity: 5000g/0.1g

**Features:** Working table can be raised and lowered, and moved to left or right.

## STSJ-1A Digital Hydrostatic Balance



**Application:** the hydrostatic balance is used to determine the specific gravity of asphalt, concrete, gravel and pebbles weight in water.

Balance capacity: 5000g/0.1g

**Features:** Working table can be raised and lowered, and moved to left or right.

## STSJ-3 Hydrostatic Balance



**Application:** the hydrostatic balance is used to determine the specific gravity of asphalt, concrete, gravel and pebbles weight in water.

Balance capacity: 5000g/0.1g

**Features:** reliable and stable, easy to operate. Stainless steel working table.

## STSJ-3B Constant Temperature Hydrostatic Balance



**Application:** the hydrostatic balance is used to determine the specific gravity of asphalt, concrete, gravel and pebbles weight in water.

Balance capacity: 5000g/0.1g

**Features:** reliable and stable, easy to operate. Stainless steel working table, equip heating and cooling function.



Triple Beam Balance  
MB-2610 2610g/0.1g



Triple Beam Balance  
MB-311 311g/0.01



Electronic Balance 5000g/0.1g



Electronic Balance 200g/0.01g



Electronic Balance 30kg/1g



Electronic Analytical Balance 200g/0.001g



Electronic Analytical Balance 200g/0.0001g



Electronic Scale 100kg

## STJZY-1 Quicklime Slurry Residue Tester

**Application:** Used to test Slurry and Residue content, it is simple structure, easy operation.





Vacuum Pump



Hygrothermograph



Proof Stick



Pycnometer

1000ml  
500ml  
250ml  
100ml  
50ml

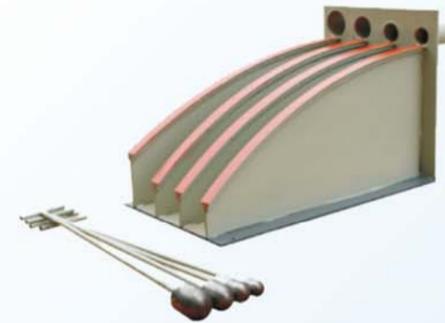


Air Compressor



Steel Ball

## STRXY-1 Plastic Ripple Pipe Flexibility Tester



**Application:** It is used to determine flexibility of pre-stressed concrete bridge plastic ripple pipe.

**Specification:** Ö50mm, Ö60mm, Ö75mm, Ö90mm



Humidifier



Tool Case

Quantity: 24pcs

## CZ-6A Magnet Gauge Stand



Magnet gauge stand is used to grasp and support a gauge. The base is equipped with magnet steel, thus it can adsorb to smooth permeance surfaces or cylindrical surfaces by pulling the knob.

## HY-727 Visible-infrared Spectrometer



Wavelength range: 330-1000nm  
 Wavelength accuracy:  $\pm 2$ nm  
 Spectral bandwidth: 5nm  
 Transmittance: 0-100%T  
 Absorbance: -0.097-2.000  
 Consistence: 0-1999  
 Ratio: 0-1999

## STNZJ-1 Torsion Testing Machine



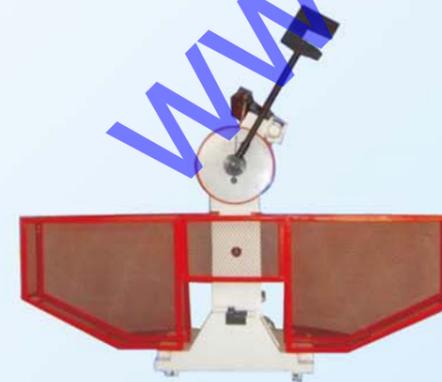
This apparatus used for doing torsion test of metal material.

Wire specimen diameter:  $\Phi 1-3$ mm;  
 $\Phi 3-10$ mm;  
 $\Phi 10-20$ mm

Rotation: 30, 60, 120rpm

Clamp way: Hydraulic clamp

## STCJJ-300B/500B Pendulum Impact Testing Machine



This apparatus used for test impact resistance feature on dynamic load of metal material.

Max. impact energy: 300/500 J

Moment of pendulum: 160, 7695, 80, 3848 N.m

Impact speed: 5.2 m/s

Angle of elevation of pendulum: 150mm

Distance from impact center to axis: 750mm

Anvil block span: 40mm

Radius of corner of anvil block: 1.1.5mm

Curvature radius of impact blade: 2-2.5mm

Bezel of impact blade: 30

Width of impact blade: 16mm

Resolution power of indicator: 2/1

## Fume Hood



**Application:** Used to ventilate for laboratory.

1.Spec: 1.2m, 1.5m

2.Feature: total made from stainless steel.

## STZDJ Vibration Testing Machine



**Application:** It simulates all routine vibration environments on manufacture, assemble and install, transportation and use. Used to determine the anti-vibration performance.

**Specification:**

1.Max. loading: 100kgs

2.Swing: 0- -5mm

3.Max. acceleration: 20g

4.Vibration waveform: sine wave

5.Power: 2.2Kw

6.Working table size: 70X70cm

7.Working voltage: 220±20%V