

YS-LAB-E702-408B-40 Humidity Chamber



FEATURES:

Climate chamber (also known as temperature and humidity test chamber) provides a wide temperature and humidity control range. It is used to simulate severe high temperature, low temperature or damp heat environment. Customer can select suitable models based on performance and test area capacity. It is widely used in various industries, such as electronic instruments and meters, new materials, electricians, vehicles, metals, electronic products, aerospace materials, which may encounter environmental conditions during transportation, storage, and in-use.

SPECIFICATION:

2. Structure

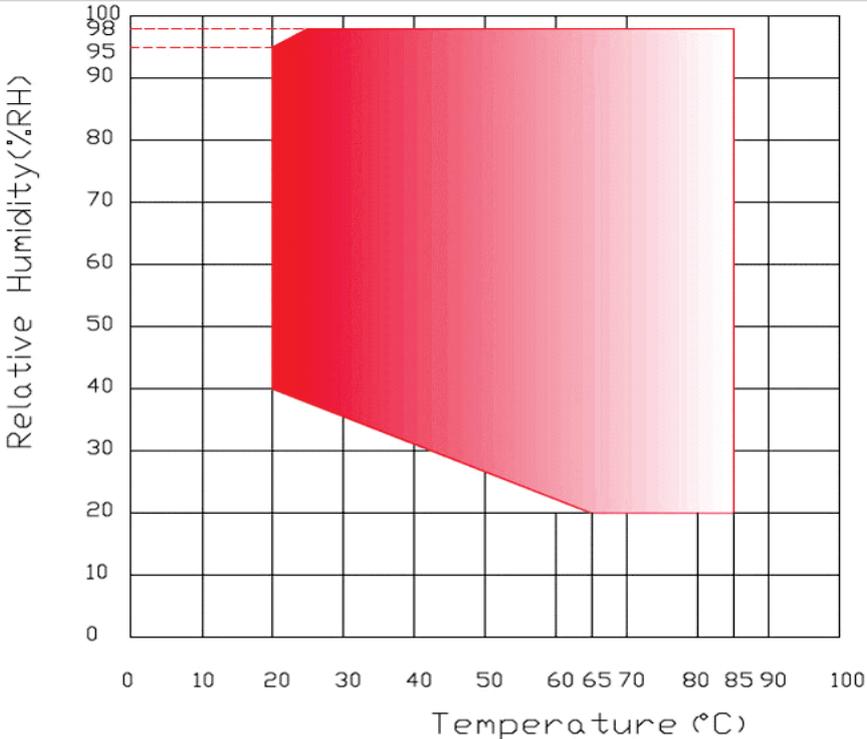
2.1 Cooling System	
1	The refrigerating system equips France Tecumseh, and uses environmentally friendly refrigerant (R404a). Adopting binary low temperature circuit system design, it is convenient to use different compressors for work in different temperature regions.
2	Temperature and humidity control using P.I.D + S.S.R system coordinated control with the same channel. It has the function of automatic calculation, which can immediately modify the temperature and humidity change conditions to make the temperature and humidity control more accurate and stable.
3	High-precision controllers of temperature and humidity. The relative temperature and humidity performance is accurately set and displayed with a resolution of 0.1 mm
2.2 Temperature and Humidification System	
1	Temperature system using Nickel-chromium alloy high-speed heating electric wire;
2	High temperature system is completely independent;
3	The humidity system using stainless steel tube built-in nickel-chromium alloy high-speed heating electric wire and high-temperature magnesium oxide powder, which has fast response and long life;
4	The temperature and humidification system is completely independent, and humidity has automatic water supplement device.
2.3 Control System	
Temp. & Humid. Sensor	High precision PT100 Platinum resistance
Controller	Youyi E600
Display Function	<ul style="list-style-type: none"> a. Temp. & humid. Setting (SV) Practical (PV) value can be displayed directly b. Display numbers, paragraphs, remaining time and cycles, running time c. Program editing and graphic curve display, d. Fixed or program operation status display,
Interface	<ul style="list-style-type: none"> a. RS-232 or R485 port design b. Connected to computer c. Monitor and remote control by computer and Ethernet optional
2.4 Protection System	
1	Protection for Electrical leakage
2	Over-temperature
3	Compressor overvoltage and overload
4	Heater short circuit
5	Water shortage

3. Main Technical Parameters

3.1 Capacity and Material	
Internal dimension(W*D*H)	400mm*400mm*500mm
External dimension(W*D*H)	900mm*900mm*500mm
Internal material	1.2mm thickness SUS#304 stainless steel, mirror finished;
External material	1.2mm thickness cold-rolled steel plate baking
3.2 Temperature	
Temperature Range	-40Deg C ~ + 220Deg C
Temperature fluctuation	±0.5Deg C/sec
Temperature uniformity	±2
Temperature Rate	1Deg C/min in average (without loading)
	3Deg C/min in average (without loading)
3.3 Humidity	
Humidity Range	20%~98%RH
Humidity fluctuation	±3%RH
Humidity uniformity	±2%RH



PLC OPERATION

Temp. & Humid. Chart	
3.4 Power Supply	
Power Source	Single-phase, 220V DCGR
Power	4.5kw
Current	6A
Weight	Approx. 150kg
3.5 Cooling System and Others	
Compressor	Semi-Hermetically Sealed France Tecumseh compressor
Refrigerant	R404A
Cooling method	Single-stage compression
Cooling method	Air-cooled flake condenser, cooling fan for heat dissipation
Humidification system	Stainless steel humidifier
Water Supply	Front-mounted water tank, automatic water supply system
Heating System	Nichrome stainless steel heater
Sample tray	SUS#304 stainless steel 2 pieces
Testing hole	Diameter 50mm, for cable routing
Evaporator	Finned tube heat exchanger
Dry filter	Absorb the residual moisture and acidic substances in the refrigerant of the refrigeration system, and filter out solid particles, copper shavings, etc. in the system to protect the normal operation of the expansion valve and capillary tube, and prevent ice blocking and dirty blocking.

Door handle	Non-reaction, explosion-proof door handle, easy to operate, safe and reliable
Insulation	100mm polyurethane rigid foam and 100mm high density glass fiber cotton
Insulation system	Filling the insulation area with ultra-fine glass fiber; Machine connection parts are made of non-metal resistant high and low temperature materials, which effectively reduces the temperature conduction; Door seal is made of refined silicone rubber, which is more reliable seal; Using isolated humidification method
Observation window	Double-layer vacuum-strengthened glass; Heat-resistant defrosting on the inside with adhesive sheet conductive film, which can clearly observe inner chamber.
3.6 Test Standard	
1	IEC6008-2-1 Cold
2	IEC6008-2-2 Dry Heat
3	IEC60068-2-38 Damp Heat, Cyclic



INTERNAL CHAMBER



TESTING HOLE FOR CABLE ROUTING

YS-LAB-E702-408B-40-1

Oven for hydrolysis/blooming test

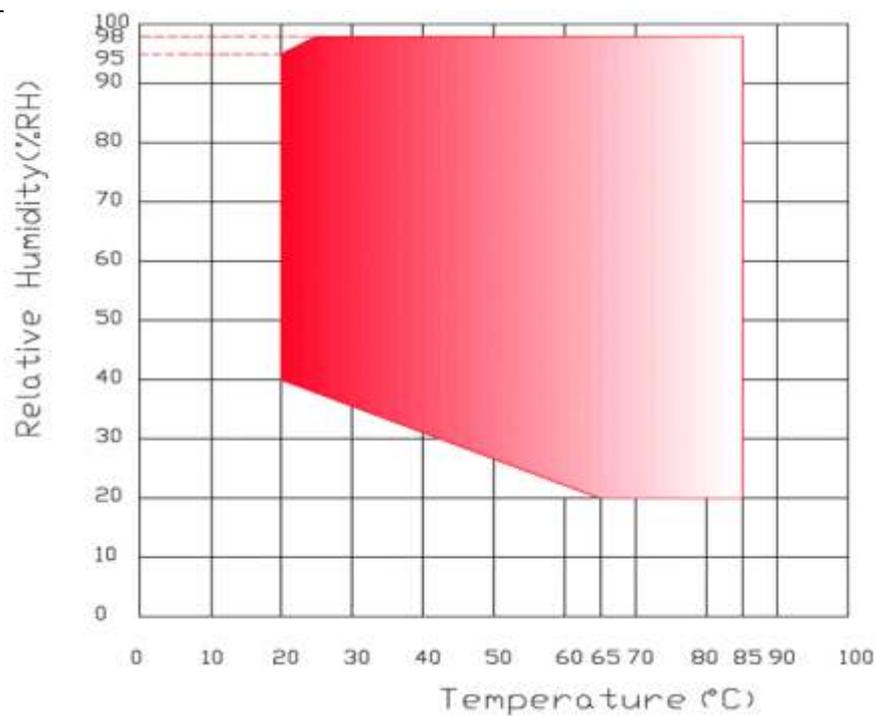


FEATURES:

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It is widely used in various industries, such as electronic instruments and meters, new materials, electricians, vehicles, metals

SPECIFICATION:

Capacity and Material	
Internal dimension(W*D*H)	600*800*850mm; 408 liter
External dimension(W*D*H)	1120*1370*1755mm
Internal material	1.2mm thickness SUS#304 stainless steel, mirror finished;
External material	1.2mm thickness cold-rolled steel plate baking
Temperature	
Temperature Range	-40? ~ + 150?
Temperature fluctuation	±0.5?
Temperature uniformity	=2?
Temperature Rate	1?/min in average (without loading)
	3?/min in average (without loading)
Humidity	
Humidity Range	20%~98%RH
Humidity fluctuation	±3%RH
Humidity uniformity	±2%RH
Temp. & Humid. Chart	
Power Supply	
Power Source	Three-phase, 380V DĆGR
Power	8.5kw
Current	22A
Weight	Approx. 360kg

Cooling System and Others	
Compressor	Semi-Hermertically Sealed France Tecumseh compressor
Refrigerant	R404A/R23
Cooling method	Mechanical binary cooling method
Condenser	Air-cooled flake condenser, cooling fan for heat dissipation
Humidification system	Stainless steel humidifier
Water Supply	Front-mounted water tank, automatic water supply system
Heating System	Nichrome stainless steel heater
Sample tray	SUS#304 stainless steel 2 pieces
Testing hole	Diameter 50mm, for cable routing
Evaporator	Finned tube heat exchanger
Dry filter	Absorb the residual moisture and acidic substances in the refrigerant of the refrigeration system, and filter out solid particles, copper shavings, etc. in the system to protect the normal operation of the expansion valve and capillary tube, and prevent ice blocking and dirty blocking.
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2	IEC6008-2-2 Dry Heat
3	IEC60068-2-38 Damp Heat, Cyclic

YS-LAB-7150

Water Penetration Tester



PRODUCT DESCRIPTION

This machine is designed for determining the water permeability of all-purpose rubber overshoes (boots). This test is conducted based on the principle of water permeability. This machine can be used for testing your products in the production line so that you can fully control your production quality and improve your productivity.

TEST STANDARD

ISO 20344, ISO 8782

PRODUCT TECHNICAL

Modal	YS-LAB-7150
Test Quantity	2pieces
Clamp lifting stroke	320 mm
Air pressure	0~50 kpa or specified; air compressor prepared by customers
Dimension (WxDxH)	101*56.5*146.5cm
Weight (approx.)	230 kg
Power	1 ϕ , AC 220V ,2A (Specified by user)

YS-LAB-A833-1 **Thickness Gauge(Soling Material)**



USAGE

For measuring the thickness of materials such as leather, synthetic materials, rubber, etc.

TEST STANDARD

SATRA TM 136

STANDARD FEATURES

Technical Index	YS-LAB-A833-1
Test range	0~10mm
Accuracy	0.01mm
Flat presser foot	$\Phi 6 \pm 4$ mm
Load pressure	22 \pm 5kPa
Weight	3kg

YS-LAB-A833-6

Thickness Gauge(Non-Leather)



USAGE

For measuring the thickness of materials such as leather, synthetic materials, rubber, etc.

TEST STANDARD

SATRA TM 27

STANDARD FEATURES

Technical Index	YS-LAB-A833-6
Test range	0~10mm
Accuracy	0.01mm
Flat presser foot	φ 19mm
Load pressure	2±0.01kPa
Weight	3kg

YS-LAB-A833

Thickness Gauge(Leather)



USAGE

For measuring the thickness of materials such as leather, synthetic materials, rubber, etc.

TEST STANDARD

SATRA TM 1

STANDARD FEATURES

Technical Index	YS-LAB-A833
Accuracy:	0.01mm
Base Platform	Φ 50mm
Indenter diameter:	10mm/29mm/4mm
Load pressure	49±5kPa
Dimensions	260×260×250mm
Weight	3kg

YS-LAB-A837-2 WEIGHING BALANCE UPTO 2 DECIMAL POINT



FEATURES:

Electromagnetic force sensor, calibration weights installed on the inside of the balance easy to calibrate at any time, functions of overload and under load alarm, tare at entire range, adding up or reducing, bottom hook weighing, which can meet quality analysis requirement of all kinds of lab.

SPECIFICATION:

Technical Index	YS-LAB-A837-2
Maximum measuring range	6000g
Accuracy	0.1g
Readability	$\pm 0.1g$
Calibration ways	Automatic
Outside dimension	460×205×280mm
Power	220V, 50Hz

YS-LAB-A837

WEIGHING BALANCE UPTO 2 DECIMAL POINT



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Maximum measuring range	6000g
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Readability	$\pm 0.1g$
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Outside dimension	460×205×280mm
Power	220V, 50Hz

YS-LAB-B604B-S

UTM (pneumatic type) with Extensometer and Nail Penetration and Energy Absorption Accessories



FEATURES:

1. Deformation under defined load: Test deformation under defined load of tested sample
2. Load under defined deformation: Test load under defined deformation of tested sample
3. Software can issue report with results for max. force, elongation, tensile strength, peel strength, tear strength, compression strength, etc.
4. This machine can do different test as per customer requirement such as peel test, tear test, compression test, bend test with different clamps.
5. Meets following standards: ASTM E83, ISO 9513, AND EN 10002-4

SPECIFICATION:

Technical Index	YS-LAB-B604B-S
Test Fixture	Can be customized according to standards
Force	100kg,200kg,500kg,1000kg,2000kg(optional)
Load cell	Germany brand load cell for high accuracy
Control system	LCD ,PC with win. 10 system(Computer optional)
Motor	Panasonic servo motor w/ DC variable speed drive system, high-precision mechanical ball screw rod
Force reading	kgf, lbf, N, KN, T etc
Stroke	1200mm including fixture
Load cell Resolution	1/250,000
Load Precision	=0.5%
Test speed	0.1~500mm/min (adjustable by PC)
Software	TM 2101
Curves display	Load- elongation, Elongation-time, Time-elongation, Stress-strain
Data display	Max. force, speed, sample information, strength(Kpa, Mpa, N/mm, N/mm ²) etc...
Safety features	E-Stop Over-load protection Upper and lower limit switches Load sensor with automatic retreat

For STAR INTERNATIONAL PVT. LTD.

Deedar P. S. G.
Managing Director

YS-LAB-D126 Slide Fastener Endurance Tester



INTRODUCTION

Zipper pull reciprocating fatigue testing machine applies to test the zipper under the transverse-oriented and long direction stress, test whether the zipper can bear the pulling with given times .During the test, the zipper head will be brought along with the same speed, with 30 times per minute until it pulled with given times.

TEST STANDARD

SATRA TM50

STANDARD FEATURES

Model	YS-LAB-D126
Stroke	75mm
Counter	LCD, 0-999,999
Reciprocating frequency	30cpm
Reciprocating stroke	75mm
Horizontal clamping device width	25mm
Vertical clamping device weight	0.28-0.34kg
Distance between two clamps	6.35mm
Opening Angle of sample	60°
Close angle of sample	30°
Power	Single phase, 220V±10%, 50Hz
Machine Size	280x550x660mm
Weight	35KG

YS-LAB-E804-35

Air Circulating Laboratory Oven



APPLICATION

1. Multiple centrifugal fan with air circulation system for uniform temperature distribution.
2. Intelligent temperature control system with digital display and PID control function.
3. With safety exhaust hole on the back side of the chamber, which can auto release pressure when has gas expansion in the internal chamber.
4. Control system has independent digital power offer protection system when over temperature.
5. High temperature resistant silicone sealing strip for safety and environmental protection.
6. Timing device.

STANDARD FEATURES

Technical Index	YS-LAB-E804-35
Temperature range	5 ~ 300°C
Internal dimension	400 x 360 x 400 mm (w x d x h)
Temperature control accuracy	± 1°C
Controller	LED display, PID Temperature Control & Timing Device
Internal material	Stainless steel
External material	Galvanized steel plate
Insulation material	High density silicate insulation fiber, High temperature resistant sealer
Sample tray	Stainless steel, 2pcs
Power	950W
Protection device	Over Temperature Protection, Heater Short Circuit, Motor Overheating & Leakage.
Alarm	Audible and visual alarm

YS-LAB-E805 Muffle Furnace



GENERAL SPECIFICATIONS :

Packaging Dimensions: (W*D*H) 870*610*820mm
Power supply source: single-phase, 220V, 50Hz (can be appointed)

SPECIFICATION:

Technical Index	YS-LAB-E805
Inner dimension (W*D*H)	200*300*120mm
Outer dimension (W*D*H)	480*460*630mm
Temperature range	Approx.1100°C
Temperature precision	+/- 5°C
Controller	Digital temperature controller
Heating element	thermal fuse
Thermocouple	K-thermocouple
Furnace materials	aluminium oxide
Thermal insulation material	refractory brick
Voltage	single-phase, 220V, 50Hz,3kw
Gross weight	120kg

YS-LAB-F750-4

Compression Set Apparatus-Constant Strain Type



PRODUCT INTRODUCTION

The specimen should be hold in oven under condition of 70°C with 22 hours and observe the height change after recover.

GENERAL SPECIFICATIONS

Packaging Dimensions: (WxDxH) 650*720*610mm

Power supply source: single-phase, 220V±10%, 50/60Hz (can be appointed)

Gross Weight: 60kg

STANDARD FEATURES

Item	YS-LAB-F750-4
Temperature range	RT~ 200°C
Internal dimension(L*W*H)	350*350*350mm
Temperature control accuracy	± 1?
Controller	LED display, PID Temperature Control & Timing Device
Internal material	Stainless steel
External material	Galvanized steel plate
Grips	One set of compression grip: 50%, 75%
Specimen size(L*W*H)	50mm*50mm*25mm
Protection device	Over Temperature Protection, Heater Short Circuit, Motor Overheating & Leakage.

YS-LAB-G801

Back Height Measuring Instrument



SPECIFICATION:

Model	YS-LAB-G801
Test Height	0~1000mm
Precision	0.01mm

YS-LAB-G803-1 Digital & Analogue Durometer Hardness Tester Shore Scale



One base and type A&C

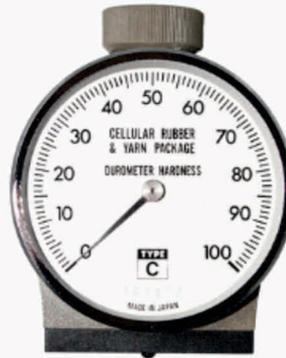


One base and type D

STANDARD FEATURES:

Model	A	C	D
Dial values	0 ~ 100 HC	0 ~ 100 HC	0 ~ 100 HC
Pressure needle stroke	2.5 mm	2.5 mm	2.5 mm
Indenter diameter	1.25mm±0.15mm		
Diameter of indenter tip	Φ0.79mm	Φ5mm	Φ0.2mm
Indenter pressure	0.55N-8.06N	0.55N-8.06N	0-44.5N
Weight	12 kg		

YS-LAB-G803-2 Hardness Tester Asker Scale



STANDARD FEATURES:

Working dimension	Model	Indenter Design (mm)		Spring Load (g)		Size & Shape of the presser foot (mm)	Dimensions (W*D*H) (mm)	Weight (g)
		Height	Shape	0Degree	100 Degree			
	Asker C	2.54	5.08 diameter hemisphere	55	855	44 x 18 (rectangular)	57x30x76	200
	Asker F	2.54	15 Diameter Circular Cylinder	100	200	50 x 37 (Oval)	50x37x81	300

This information is Asker FP type, not Asker F type

YS-LAB-G803 Hardness Tester (Durometer)



One base and type A&C

One base and type D

STANDARD FEATURES:

Model	A	C	D
Dial values	0 ~ 100 HC	0 ~ 100 HC	0 ~ 100 HC
Pressure needle stroke	2.5 mm	2.5 mm	2.5 mm
Indenter diameter	1.25mm±0.15mm		
Diameter of indenter tip	Φ0.79mm	Φ5mm	Φ0.2mm
Indenter pressure	0.55N-8.06N	0.55N-8.06N	0-44.5N
Weight	12 kg		

For STAR INTERNATIONAL PVT. LTD.

Deedar P. S. G.
Managing Director

YS-LAB-P203

Bally Penetrometer & Bally Stiffness Mater



PRODUCT INTRODUCTION

Test shoe upper material of leather, synthetic leather, cloth, etc. against water penetration, which is taken the specimen immersing in water and flexing by a constant speed.

TEST STANDARD

ISO 20344.6.13 Determination of water penetration and water absorption for upper

STANDARD PARAMETER

Technical Index	YS-LAB-P203
Diameter of cylinder	30mm
Max. distance between the opposite flat sides of the cylinder	40mm
Test speed	50r/min
Test displacement	2,3,4,5,6 (adjustable)
Test position	4 sets
Counter	LCD,0~999,999
Timer	LED, 1 ~ 999hr
Dimension (W×D×H)	42x50x40 cm
Weight	53kg
Power	1 φ ,AC 220V,2A

YS-LAB-P233-1

Bally Permeometer



PRODUCT INTRODUCTION

After weighing and measuring the area, the test piece of the mid-bottom plate is placed on a platform infiltrated by a tiny water stream, and the back and foot surface is pressed by the roller and pulled by it to bend repeatedly, and weighed again after a certain period of time. , Measure its water absorption, hang it in a standard environment for 24 hours, and weigh it again. The ratio of the volatilization after water absorption to the water absorption is the resolution of the midsole material.

TEST STANDARD

ISO 22649, EN ISO20344,SATRA TM220

STANDARD PARAMETER

Technical Index	YS-LAB-P233-1
Capacity	1000g AC220V, 10A.
Horizontal amplitude	50±1mm
Roller diameter	φ 120±1mm
Speed	20±1 times/min
Roller stroke	50±2mm
Load	80±5N
Water flow	(7.5±2.5) mL/min.
Power supply	1 phase.220V,50Hz,10A
Machine weight	80kg
Machine size	720*300*800 mm

YS-LAB-P233

Water Absorption and Desorption Tester



PRODUCTION INTRODUCTION

Water absorption and desorption tester use for test the shoes upper raw materials, such as: leather, artificial leather, fabric, etc., cut the test piece, the test piece placed on a wet floor to do a certain pressure under repeated flexing action test, simulated walking, Shoes insole through the deflection process to measure the material resistance to penetration index, shoe insole and insole of the water Absorption.

TEST STANDARD

ISO 20344 7.2 Determination of water absorption and desorption of insole and insock

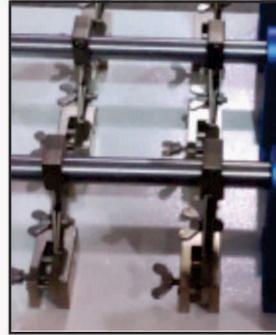
STANDARD FEATURES

Test chamber	Diameter of 120mm, 50mm wide roller placed on the test piece, with the help of compression force: $80 \pm 5N$ spring or pneumatic system so that the test piece close to the drum, the roller along the horizontal line in both directions to 50mm amplitude for the level Scroll back and forth.
Roller movement frequency reciprocating	20 times / min
Reciprocating displacement	$50 \pm 1mm$
Water flow rate	$7.5 \pm 2.5 ml / min$
Timer	LED, accurate to 0.01s, 1 ~ 100 h
Counter	6-digit LCD display
The number of specimens	4 groups
Power supply	AC220V, 50Hz

YS-LAB-P301-1

Bally Flexing Machine in Subzero

Temperature Bally Flexometer



PRODUCT INTRODUCTION

This machine is designed to test various materials of shoe sole in cold environment to ensure suitability for use in cold climate.

STANDARD

EN344 ,SATRA TM161,ISO 17707,GB/T20991

STANDARD FEATURES

Technical Index	YS-LAB-P301-1
Material	Stainless steel SUS#304
Inner capacity	50*60*50cm (L x H x D)
Temp range	-30°C~ 50°C
Safety device	thermal ,overheat, overload protection
Temp Accuracy	within 0.5°C
Temp uniformity	within 1°C
Cooling speed	1°C /min at ave.
Refrigerant	R404 with environment protection
Compressor	France Tecumseh
Compressor start delay time	5min
Fixture	6 stations
flexing speed	125-150times/min
Control ways	TEMI 880 controller, touch screen control
Weight	400kg
Power	AC220V 50HZ 3KW

YS-LAB-P301 Bally Flexing Machine Bally Flexometer



Fixture

Control panel

FEATURES:

This machine applies to the scratching resistance test of leather, lining, fabric and the similar material at room temperature

TEST PRINCIPLE:

The machine according to test standards : test method is one side face of the sample as the inner surface and the other side face as the outside surface and bend this surface back and forth, write down the times that the sample have broken; or set the breakage time, then take it out and observe the degree it broken.

Clamping the specimen in fixture, after flexing back and forth in 22.5°, observe the surface with a magnifying glass, record the damage degree to judge the resistance strength of flexing.

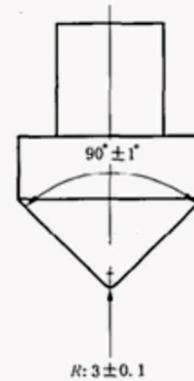
ISO 5402

SPECIFICATION:

Technical Index	YS-LAB-P301
Fixture option	12 Groups
Specimens	70x45mm
Bending Angle	22.5 ± 0.5°
Bending speed	100 ± 5cpm
Counter	LED,0~999,999,Automatic shutdown
Machine Size	(LxWxH)785x460x320mm
Power	1 φ ,AC220V/50HZ
Weight	80kg

YS-LAB-P303

Impact Resistance of Metatarsal Protective Device



INTRODUCTION

This machine is used to test impact resistance of safety shoes.

TEST STANDARD

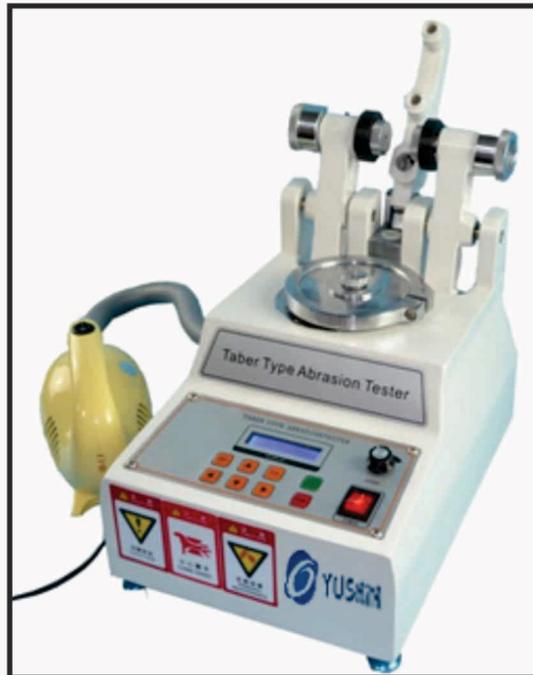
SANS 20345-2014, EN ISO 20345

STANDARD FEATURES

Technical Index	YS-LAB-P303
Drop hammer weight	(EN)20±0.2kg,(ANSI)22.7±0.2 kg
Impact energy	(EN)200 J,(BS, ANSI)200±4 J
Impact blade	(EN)R 3±0.1mm,(ANSI) ψ 25.4 mm
Valid stroke	0-1100 mm
Weight (approx.)	240 kg
Power	1 ϕ , AC 220V, 3A

YS-LAB-P304

Abrasion Resistance Tester(Taber Method)



PRODUCTION INTRODUCTION

This machine is used for HPL, leather, **cloth**, coating, paper, floor tile, plywood, glass, natural rubber wear-resistant test.

TEST STANDARD

SATRA TM163,EN438,DIN53754,53799,53109,52347,TAPPI T476, ASTM D3884,ISO 54701, ASTM D 1175

STANDARD FEATURES

Technical Index	YS-LAB-P304
Load	250gx2,500gx2, 750gx2
Specimen: outside dia	Ø130mm
Abrasion Wheel	Ø50mm
Thickness of abrasion wheel	12.7mm
Space Between abrasion Wheels	52.5mm
Abrasion Wheel and Plate`s Space:	37~38mm
Rotating Speed	60~72r/min(adjustable)
Counter	LED 0~99999999
Distance Between Specimen and Hose	3mm
Grinding wheel type(optional)	CS-17,CS-10,H-18,H-22 or S-35
Dimension	45×35×42cm
Accessories(free)	1set abrasion wheel, 1pc Dust collector,1 book of English manual
Net Weight	40Kg

YS-LAB-P305 Water Resistance Tester



APPLICATION

The Machine is to test shoe upper material like leather, synthetic leather, against water penetration, the test method is to take the specimen immersing in water and flexing by a constant speed.

TEST STANDARD

SATRA TM 34,ASTM-D2099, ISO 11640

STANDARD FEATURES

Model	YS-LAB-P305
No. of specimens	4
Specimen size	4"x4"±0.125 (101.6x101.6±3.2mm)
Load	Steel ball Total weight: 135±5g
Speed	(90±5) cpm
Test displacement	30±1°
Dimension	49x45x45cm
Weight	55kg
Power supply	1 φ AC220V,3A

STANDARD PARAMETER

Technical Index	YS-LAB-P306-4		
Consumables	Baize 4, Testing Cotton 4		
Interface	LCD display		
Count display	Projected Count: 0 ~ 999 999 times; Cumulative count: 0 ~ 99 9999 times		
Maximum stroke	24 ± 0.5mm, 60.5 ± 0.5mm		
Loading :	a. Holder: 200±1g		
	b. Dress material counter weight: 395±2g		
	c. Furnishings/Leather material counter weight: 594±2g		
	d. Stainless steel butterfly slice: 260±1g		
Abrasion chunk effective rub diameter	A model: 200g(1.96N, 9KPa) , abrasion head \varnothing 28.8 -0.084mm		
Pace speed of the holder	50-2r/min		
Sample loading pressure hammer	2385±10g		
Diameter of abrasion fabric	140mm		
Diameter of Specimen	38mm		
Power	AC 220V/50Hz		
Dimension	600x650x320mm		

YS-LAB-P306-4

Martindale Abrasion Testing Machine



Abrasion head for pilling test



Abrasion head for abrasion test

PRODUCT INTRODUCTION

It mainly applies to the pilling & abrasion resistance test of textile the similar fabric. Testing the samples as per the standard, test can be classified as dry test and wet test. And test the samples Lissajous-oriented for the regulated times, then observe the difference between it and the original samples and decide the grade of scrubbing resistance.

TEST STANDARD

ASTM D4970, ISO12945-2 and other pilling degree test;
ASTM D4966, ISO12947 and other fabric abrasion tests.

PRODUCT FEATURES

1. Adopt with LCD touch screen, clear and easy to operate;
2. With pill and abrasion testing progress, can meet various international standards;
3. Use reduce and increase counting testing method for easy operation;
4. With imported PLC, reliable and suitable for long time test.

YS-LAB-P307-1

ABRASION TESTER FOR SOLING MATERIAL



FEATURES:

DIN Type Abrasion Tester is to measure the abrasion resistance of rubbers (vulcanized thermoset rubbers and thermoplastic elastomers) that are subject to abrasive/frictional wear in their actual service, such as tires, conveyor drive belts, leather and shoe soles

TEST STANDARD:

DIN-53516, ISO-4649, GB/T9867, **ASTM D5963**, ISO 20344 8.3

SPECIFICATION:

Technical Index	YS-LAB-P307
Specimens size	16mm, 6-15mm (D)
Fixture load	2.5N
Weight load	2.5N,5N
Fixture lateral displacement	4.2mm/wheel each lap
Wheel diameter	150mm
Wheel length	460mm
Wheel rotate speed	40rpm
Travel reservations	40m/20m
Abrasion speed	0.32m/sec
Dip angle	3°the angle of the specimen back shaft with vertical roller face
Machine Size	(L×W×H)70×30×30cm
Net Weight	55KG

YS-LAB-P307 ABRASION TESTER FOR SOLING MATERIAL



FEATURES:

DIN Type Abrasion Tester is to measure the abrasion resistance of rubbers (vulcanized thermoset rubbers and thermoplastic elastomers) that are subject to abrasive/frictional wear in their actual service, such as tires, conveyor drive belts, leather and shoe soles

TEST STANDARD:

DIN-53516, ISO-4649, GB/T9867, **ASTM D5963**, ISO 20344 8.3

SPECIFICATION:

Technical Index	YS-LAB-P307
Specimens size	16mm, 6-15mm (D)
Fixture load	2.5N
Weight load	2.5N,5N
Fixture lateral displacement	4.2mm/wheel each lap
Wheel diameter	150mm
Wheel length	460mm
Wheel rotate speed	40rpm
Travel reservations	40m/20m
Abrasion speed	0.32m/sec
Dip angle	3°the angle of the specimen back shaft with vertical roller face
Machine Size	(L×W×H)70×30×30cm
Net Weight	55KG

YS-LAB-P311 Compression Set



FEATURES:

This machine is used to testing resilience of the rubber products after a certain and time and pressure. Take the standard test piece, the distribution flated on the test plate, clamped between two plates, the release of the specimen and cooling after prescribed time, respectively to measure the center thickness of test film and then use the formula to calculate its compression resilience.

SPECIFICATION:

Technical Index	YS-LAB-P311
Nos of sample pressure plate	9 pcs, ϕ 97mm, 3mm thickness
Max capacity	500kgf
Dial indicator	50mm
Measure sample Thickness	0~20mm
Sample size A	MethodA:foam ϕ 29.0 mm, Non-foaming material ϕ 14.5 mm
Sample size B	Method 1:foam ϕ 25.4 mm, Non-foaming material ϕ 12.7 mm

For STAR INTERNATIONAL PVT. LTD.

Devi P. S.
Managing Director

YS-LAB-P313 Shoe Lace Abrasion Tester



INTRODUCTION

This is used for a variety of materials such as cotton, hemp and chemical fiber woven lace abrasion resistance determined.

TEST STANDARD

SATRA PM154, DIN 4843, BS5131, QB/T2226

STANDARD FEATURES

Technical Index	YS-LAB-P313
Fixture	4 groups
Counter	LCD, 0~999, 999
Test speed	100±5cpm
Dimension	66x50x40cm
Weight	61kg
Power	1ϕAC 220V, 50Hz,

YS-LAB-P314

Repeated Extension Machine



APPLICATION

A round test piece is fixed on the horizontal circular turntable of the scratch resistance testing machine, and the scraper is rotated on the surface of the test piece under a certain pressure to test the scratch resistance of the test piece.

STANDARD

SATRA TM140

STANDARD FEATURES

Technical Index	YS-LAB-P314
Fixture width	150mm
Minimum distance of fixture	60mm
Counter	LCD 0-999999
Test speed	65±5 times/min
Power	1 phase, AV 220V, 50/60HZ
N.Weight	Approx 100kg
Volumn	750*400*500mm.(W'D'H)

YS-LAB-P315

Velcro Fatigue Tester



APPLICATION

This machine simulates the use of adhesive load, speed, etc. of the adhesive and peeling of the shoe adhesive tape buckle during the wearing process.

STANDARD

SATRA TM123

STANDARD FEATURES

Technical Index	YS-LAB-P315
Roller diameter:	160mm upper wheel, 162.5mm lower wheel
Roller width	70 mm
Roller speed	60 rpm
Counter	LCD display 0~999,999
Power	1 phase, AV 220V, 50/60HZ
N.Weight	Approx 100kg
Volume	550*450*650mm.(W'D'H)

YS-LAB-P319

Rebound Resilience Tester



APPLICATION

Rebound resilience (elasticity) facilitates a simple method of measuring damping properties and is commonly used in conjunction with hardness testing for basic quality control.

STANDARD

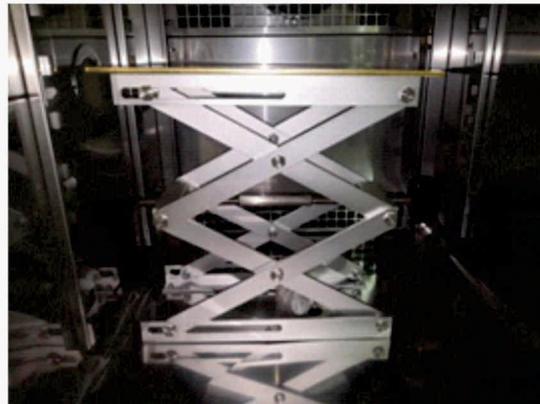
DIN 53512, ASTM D 2632, ISO 4662

STANDARD FEATURES

Model	YS-LAB-P319
Drop height	400mm
Drop weight	28g
Test thickness	12.5mm
Power	AC 220V,50Hz
Product Size	250X150X525mm

YS-LAB-P702-150

Cold Insulation Tester



TEST STANDARD

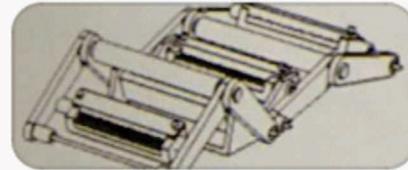
ISO 20344 5.13

STANDARD FEATURES

Model	YS-LAB-P702-150
Internal dimension (W*D*H)	500x600x500 mm
External dimension (W*D*H)	1100x1500x1100 mm
Temperature	-50°C~50°C
Cooling speed	1°C/min in average (without loading)
Internal chamber material	SUS#304 stainless steel, mirror finished
External chamber material	Stainless steel
Cooling method	Air cooling
Controller	LCD touch screen, programmable control temperature
Insulation material	50mm high density rigid Polyurethane foam
Safety protection device	Protection for leakage Over-temperature Compressor overvoltage and overload Heater short circuit Water shortage

YS-LAB-P805-1

Sole Flexing Machine in Subzero Temperature



PRODUCT INTRODUCTION

This machine is designed to test various materials of shoe sole in cold environment to ensure suitability for use in cold climate.

STANDARD

En344 ,SATRA TM161,ISO 17707,GB/T20991

STANDARD FEATURES

Technical Index	YS-LAB-P805-1
Material	Stainless steel SUS#304
Inner capacity	1000*1000*800mm (L x H x D)
Temp range	-30°C~ 50°C
Safety device	thermal ,overheat, overload protection
Temp Accuracy	within 0.5°C
Temp uniformity	within 1°C
Cooling speed	1°C /min at ave.
Refrigerant	R404 with environment protection
Compressor	France Tecumseh
Compressor start delay time	5min
Fixture	Sole Bending fixtures, 3groups
Fixture width	144mm
flexing angle	90°
flexing speed	125-150times/min
Control ways	TEMI 880 controller, touch screen control
Weight	400kg
Power	AC220V 50HZ 3KW

YS-LAB-P805

Sole Flexing Machine Bennewart Type



PRODUCT INTRODUCTION

This product is to test the use life after the sole flexed. The sole may break or craze after long-time roller bending. When using this machine, impale several holes at the place where has max bending rate, then fix the two ends of the sole, with end fixed and the other movable. During test, make the circular shaft rise repeatedly, after banded enough times, check its stretch stage through magnifying Glass.

STANDARD

En344 ,SATRA TM161,ISO 17707,GB/T20991

STANDARD FEATURES

Technical Index	YS-LAB-P805
Bending Angle	90°
Bend speed	125~150times per minute
Test class number	3group
Counter	LED,0-999,999 automatic shutdown
motor	DC,120W
Machine size	(LxWxH)1000x450x540mm
Weight	168kg
Power	1AC220V, 3A

YS-LAB-P806

Ross Flexing Machine at Room Temperature



PRODUCT INTRODUCTION

It is a right-angle bending test of rubber products, shoe soles, PU and other materials. After the test piece is continuously stretched and bent by this machine, the degree of attenuation, damage and cracking are checked.

TEST PRINCIPLE

ASTM-D1052,ISO 5423,ISO 4643,ASTRA TM60

STANDARD FEATURES

Technical Index	YS-LAB-P806
Test piece	6" (L)×1" (W) sole 0.25"
Fixture	6 sets (sets), 12 pieces can be tested
Bend angle	Max.90° (adjustable)
Test speed	100±3cpm
Counter	0~999,999
Dimension	61x50x55cm
Power	1 φ , AC220V, 5 A
Weight	80kg

YS-LAB-P808

Veslic Rub Fastness Tester



FEATURES:

Rubbing Fastness Tester, to determine the color fastness to rubbing.

TESTING STANDARD:

SATRA PM 173, ISO 11640, EN 344,

SPECIFICATION:

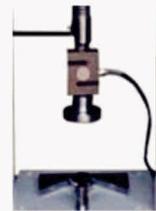
Model	YS-LAB-P808
Rubbing Stations	1/4
Rubbing finger	500 ± 25 g (or 1000g by adding a load mass)
Loading weight	500 ± 10 g
Dimension of base of finger	15 x 15 mm
Specimen size	120x20mm
Speed of rubbing	40 ± 2 cycles/min
Rubbing stroke	35 ~ 40 mm
Counter	LCD, 1-999,999 times, automatically stops
Power	1 phase, AV 220V, 50/60Hz

YS-LAB-P809

Compression Resistance Tester



test head for nail penetration



test head for compression

PRODUCT INTRODUCTION

This machine is used to test Anti compression and nail resistance of safety footwear.

TEST STANDARD

SATRATM37, ISO 20344 5.5 EN 12568
ISO 20344.5.8.2

STANDARD PARAMETER

Technical Index	YS-LAB-P809
Compression capacity	(EN)15±0.1kN
Compression speed	(EN)5±2mm/min
Hardness of Compression plate	(EN)60HRC
Puncture nail	4.50±0.05 m, 60 HRC
Sensor	Load cell 20KN
Resolution	1/10,000
Puncture speed	10±3mm/min
Machine weight	115kg
Machine size	720*300*830 mm

YS-LAB-P810 Thickness Gauge(Leather)



APPLICATION

This machine is used to measure the stiffness in the longitudinal direction of steel shanks used for the reinforcement of the waist region of shoes. The shank is clamped at its heel end and bent as a cantilever beam by masses added to its forward end. The amount of bending is measured and used to calculate the flexural rigidity of the shank.

STANDARD

SATRA TM58

STANDARD FEATURES

Technical Index	YS-LAB-P810
Rotation angle	30°
Length of measuring clip	60±0.02mm
Depth of clamp for front end	12mm
Load	200g, 4pcs
Controller	Pointer type
Weight	Approx. 20kg
Power	1 phase, AV 220V, 50/60HZ
Size (W*D*H)	45x20x45cm

YS-LAB-P812-1

Complete Shoe Flexing Machine at Subzero Temperature



PRODUCT INTRODUCTION

This machine is designed to test various materials of shoe sole in cold environment to ensure suitability for use in cold climate.

STANDARD

SATRA TM92

STANDARD FEATURES

Technical Index	YS-LAB-P812-1
Material	Stainless steel SUS#304
Inner capacity	50*60*50cm (L x H x D)
Temp range	-30°C~ 50°C
Safety device	thermal ,overheat, overload protection
Temp Accuracy	within 0.5°C
Temp uniformity	within 1°C
Cooling speed	1°C /min at ave.
Refrigerant	R404 with environment protection
Compressor	France Tecumseh
Compressor start delay time	5min
Fixture	2 stations
flexing speed	70 cycles/minute
Control ways	TEMI 880 controller, touch screen control
Weight	400kg
Power	AC220V 50HZ 3KW

YS-LAB-P812-2

Ross Flexing Machine at Subzero Temperature



PRODUCT INTRODUCTION

This machine is designed to test various materials of shoe sole in cold environment to ensure suitability for use in cold climate.

STANDARD

SATRA TM60

STANDARD FEATURES

Technical Index	YS-LAB-P812-2
Material	Stainless steel SUS#304
Inner capacity	50*60*50cm (L x H x D)
Temp range	-50°C~ 50°C
Safety device	thermal ,overheat, overload protection
Temp Accuracy	within 0.5°C
Temp uniformity	within 1°C
Cooling speed	1°C /min at ave.
Refrigerant	R404 with environment protection
Compressor	France Tecumseh
Compressor start delay time	5min
Fixture	10 stations
flexing speed	60 ± 5 cycles per minute
Control ways	TEMI 880 controller, touch screen control
Weight	400kg
Power	AC220V 50HZ 3KW

YS-LAB-P812

Complete Shoe Flexing Machine at Room Temperature



PRODUCT INTRODUCTION

This machine is designed for measuring the resistance of shoes of all kinds to flex. It determines the fatigue durability and service life of shoes by simulating the walking state of a person. This machine features simple operation, reasonable design, rigidity and durability, low noise and easy maintenance.

STANDARD

SATRA TM92

STANDARD FEATURES

Technical Index	YS-LAB-P812
Capacity	4 stations(4 specimen can be tested simultaneously)
Bending angle	30° ~ 90°
Speed	50~150cpm
Test piece size	4~13 yards for children's shoes, 1~12 yards for adult shoes (UK size)
Specimen length	150~400mm
Specimen width	150mm (max)
Counter	LCD display,0~999,999
Dimension(LxWxH)	97x77x70cm
Electromotor	DC 1/2HP
Net Weight	230kg

YS-LAB-P813

Digital Lastometer



INTRODUCTION

Lastometer is to determine distension and strength of leather grain.

STANDARD FEATURES

Model	YS-LAB-P813
Load	0~1000N
Diameter of steel ball	φ6.25 mm
Diameter of test area	Φ25 mm
Scale range	0~20mm
Max. distension	45mm

YS-LAB-P817

Bata Belt Flexing Tester At Room Temperature



APPLICATION

The Bata belt flexing machine provides one of the best indications of the risk of cracking of shoe soles due to flexing in wear.

STANDARD

SATRA TM133

STANDARD FEATURES

Technical Index	YS-LAB-P817
Tape length	1930±50mm
Band speed	90cycles/min
Central diameter of big wheel	φ 225±5mm
Center diameter of small wheel	φ 60mm, φ 90mm, φ 120mm
Number of tests	6pcs
Counter	LCD 0~999,999
Motor	AC1/2HP inverter motor
Power	1 phase, AV 220V, 50/60HZ
N.Weight	Approx 170kg
Volumn	1290x750x700mm

YS-LAB-P821

Bennewart Flexing Tester and Rigidity Tester



PRODUCT INTRODUCTION

This product is to test the use life after the sole flexed. The sole may break or craze after long-time roller bending. When using this machine, impale several holes at the place where has max bending rate, then fix the two ends of the sole, with end fixed and the other movable. During test, make the circular shaft rise repeatedly, after banded enough times, check its stretch stage through magnifying Glass.

STANDARD

En344 ,SATRA TM161,ISO 17707,GB/T20991

STANDARD FEATURES

Technical Index	YS-LAB-P821
Bending Angle	90°
Bend speed	140times per minute
Test class number	3group
Counter	LED,0-999,999 automatic shutdown
motor	DC,120W
Machine size	(LxWxH)1000x450x540mm
Weight	168kg
Power	1⊘ AC220V, 3A

YS-LAB-P835-1 Water Vapor Absorption Tester



PRODUCT DISCRIPTION

This machine is mainly use to test water resistant vapor Absorption Tester characteristic for vamp and upper shoe materials (including surface and lining) Under the standard stipulated 20°C and the 65%RH environment.

TEST STANDARD

ISO 17229:2016

STANDARD FEATURES

Model	YS-LAB-P835-1
Temperate and humidity range	-20°C ~ 150°C, 20%R·H ~ 98%RH
Material	Stainless steel SUS#304
Inner capacity	40*50*50cm (L x H x D)
Temp Accuracy	within 0.5° C
Temp uniformity	within 1° C
Cooling speed	1° C /min at ave.
Refrigerant	R404 with environment protection
Compressor	France Tecumseh
Control ways	TEMI 880 controller, touch screen control
Sample size	4.3cm
Simultaneous sample measurement	6 stations
Test machine volume	10cm ²
Bottle mouth diameter	35mm
Voltage	220V, 50Hz

YS-LAB-P835

Water Vapor Permeability Tester

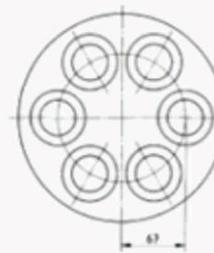
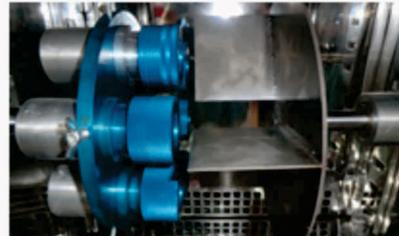


Fig. 2 Bottle holder

PRODUCT DISCRIPTION

This machine is mainly use to test water resistant vapor permeability characteristic for vamp and upper shoe materials (including surface and lining) Under the standard stipulated 20°C and the 65%RH environment

TEST STANDARD

DIN53333,ISO 8782-1,ISO 17699

STANDARD FEATURES

Model	YS-LAB-P835
Temperate and humidity range	20°C , 65%RH
Material	Stainless steel SUS#304
Inner capacity	50*50*60cm (L x H x D)
Safety device	thermal ,overheat, overload protection
Temp Accuracy,uniformity	within 0.5°C,within 1°C
Cooling speed	1°C /min at ave.
Refrigerant	R404 with environment protection
Compressor	France Tecumseh
Compressor start delay time	5min
Control ways	TEMI 880 controller, touch screen control
Sample size	34mm
Bottle mouth diameter	30mm
Fan size	90x75mm(LxW)
Test plate speed	(75±5)CPM
Blade angel	120 degrees
Fan Blade Nos.	3pcs
Fan speed	(1400±100) rpm.
Voltage	AC220V,10A

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YS-LAB-P836-1 Fatigue tester (De-Mattie)



FEATURES:

This machine is used to observe the degree of cracking after continuous bending fatigue of the sample to understand and compare its durability. Suitable for rubber, leather, synthetic leather, shoe soles and other materials.

ISO7854-3.1 JIS-K6301, ASTM-D813, D430, BS-903, HG4-836/837, GB-13934 GB/T 20991, GB/T12586-2003, HG/T 3086-2011

SPECIFICATION:

Technical Index	YS-LAB-P836-1
Specimen size	(L)125-155*(w)20-25*(D)mm
Fixture spacing	19-75mm
Test speed	0-300±10 cpm adjustable
Reciprocating stroke	19~75 mm
Counter: digital display	0-999999 (6digits)
Number of test pieces	6 groups
Dimensions	680*460*580mm
N. Weight	68kg(approx)

YS-LAB-P836-2

Flex Resistance of Penetration-Resistant Insert



PRODUCT INTRODUCTION

This machine is designed for determining the resistance of insoles for safety shoes to flex. The middle part of the specimen is fixed and then flexed repeatedly using the stationary bar. It can stop automatically. This machine is equipped with a safety cover to protect operator against injury during operation.

TEST STANDARD

EN-12568 7.2.2 ,ISO-20344 5.9,GB/T20991-2007

STANDARD PARAMETER

Technical Index	YS-LAB-P836-2
Flexing Frequency	16±1 cycle/sec
Flexing Height	33mm
Sampling	2 sets
Counter	LCD Display 0~99,999,999
Dimension (W×D×H)	Main unit:71×36×36 cm Control box:23×26×25cm
Weight(approx.)	80kg
Power	1? , AC220V,1A

YS-LAB-P836 Metal Insert Flexing Machine



FEATURES:

This machine is designed for determining the resistance of insoles for safety shoes to flex. The middle part of the specimen is fixed and then flexed repeatedly using the stationary bar. It can stop automatically. This machine is equipped with a safety cover to protect operator against injury during operation.

EN-12568、ISO-20344 5.9、GB/T20991-2007

SPECIFICATION:

Technical Index	YS-LAB-P836
Flexing Frequency	16±1 cycle/sec
Flexing Height	33mm
Sampling	2 sets
Counter	LCD Display 0~99,999,999
Dimension (W×D×H)	Main unit:71×36×36 cm Control box:23×26×25cm
Weight(approx.)	80kg
Power	1? , AC220V,1A(Specified by user)

YS-LAB-P840

Anti-Static Tester



PRODUCT INTRODUCTION

This machine is used for testing the electrical resistance of the shoe or its materials so as to assess its anti-static characteristics.

TEST STANDARD

ISO 20344 5.10

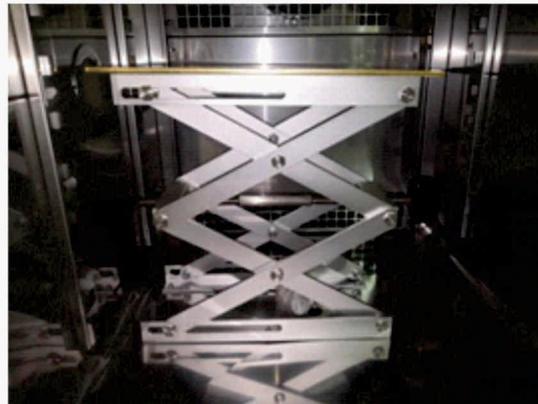
PRODUCT FEATURES

1. Have a safety function, can protect the safety of the operator and equipment.
2. Simultaneously display test voltage, voltage-resistance, and test time.
3. With automatic discharge, automatic shift, manual shift function.
4. Optional RS232. RS485. Standard PLC interface.

STANDARD PARAMETER

Technical Index	YS-LAB-P840
Rated output voltage (DC)	(100 ± 2) V DC
Voltage accuracy	$\pm (2\% + 2\%_{FS})$
Resistance test range	100K Ω -9999M Ω
Conductive copper plate	300×400mm
Conductive steel ball	Φ 5mm, 4kg

YS-LAB-P850 Cold Insulation Tester



TEST STANDARD

ISO 20344 5.13

STANDARD FEATURES

Model	YS-LAB-P850
Internal dimension (W*D*H)	500x600x500 mm
External dimension (W*D*H)	1100x1500x1100 mm
Temperature	Air temperature at $-17\pm 2^{\circ}\text{C}$
Cooling speed	$1^{\circ}\text{C}/\text{min}$ in average (without loading)
Internal chamber material	SUS#304 stainless steel, mirror finished
External chamber material	Stainless steel
Cooling method	Air cooling
Controller	LCD touch screen, programmable control temperature
Insulation material	50mm high density rigid Polyurethane foam
Safety protection device	Protection for leakage Over-temperature Compressor overvoltage and overload Heater short circuit Water shortage

YS-LAB-P860 Heat Insulation Tester(Sandbath)



APPLICATION

The machine is used to test the high temperature resistance of shoe soles.

STANDARD

ISO 20344, ISO 8782-1, GB/T 20991

STANDARD FEATURES

Technical Index	YS-LAB-P860
Sandbox size	400*400*80mm
Test temperature	150±5°C or 250±5°C
Sand height & size	≥5mm, 0.3~1.0mm
Test area	400×400mm
Heat transfer medium	φ 5mm steel ball, total mass 4kg
Maximum temperature of hot plate	250°C
Copper/copper-nickel thermocouple	Weld a copper disc with a thickness of 2±0.1mm and a diameter of 15±1mm.
Temperature control accuracy	±0.5°C temperature sensor.
Heating power	2.5KW.
Power	1 phase, AV 220V, 50/60HZ
N.Weight	Approx 55kg
Volumn	500x500x360mm

YS-LAB-P926 Heat Insulation Tester



APPLICATION

This testing machine is mainly used to test the high temperature resistance of shoe sole materials. After the required test temperature is reached, press the sample and the testing machine with a fixed pressure for a certain period of time (about 60s), and observe the degree of damage on the surface of the sample, such as melting, softening, cracking, etc. Then judge whether it is qualified according to the standard.

STANDARD

ISO20344,GB/T 20991,SATRA TM 49,EN344

STANDARD FEATURES

Technical Index	YS-LAB-P926
Specimen size	70x30x3~7mm (LxWxthickness)
Test temperature	(100~300) Degree sel. (adjustable)
Self-calibration platform diameter	40mm
Press block size	(25.5x25.5) mm
Load	1200±50g
N. weight	About 16kg

YS-LAB-R804-1 MELT FLOW INDEX



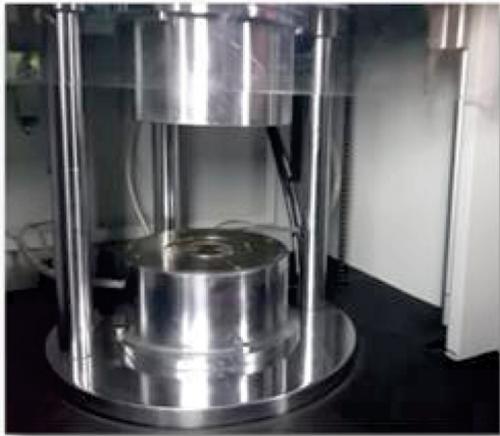
FEATURES:

It is used to determine the MFR value of melt flow rate through a standard die every 10 minutes when various plastics and resins pass through a certain temperature and load in a viscous flow state. It is suitable for polycarbonate, polyarylsulfone, fluorine with higher melting temperature Engineering plastics such as plastic and nylon. It is also suitable for polyethylene (PE), polystyrene (PS), polypropylene (PP), ABS resin, polyoxymethylene (POM), polycarbonate (PC) resin, etc. The melting temperature is low The plastic testing is widely used in plastic production, plastic products, petrochemical industries and related universities, scientific research units and commodity inspection departments.

SPECIFICATION:

Testing range	0.1-150g/10min (MFR); 50-5000 cm ³ /10min(MVR)
Temperature range	0~450°C
Controlling Accuracy	±0.2°C
Timing accuracy	0.1s
Displacement accuracy	0.01mm
Combination load	325g, 1200g, 2160g, 3800g, 5000g, 10000g, 12000g, 21600g
Material cutting method	Manual, timing and automatic cutting (optional)
Thin hole pattern	External diameter: 9.5±0.02mm; bore diameter 2.0955±0.0051mm; length 8.00±0.025mm
Machine Size	(L×W×H) 40×51×60cm
Weight	42kg (not including the weights)
Power	AC220V, 50Hz, single phase
Accessory	One set computer& software, one tool box, one piece operation video CD and one piece English manual
Design standard	GB/T3682-2000,? ISO 1133: 1997,ASTM D1238

YS-LAB-R811-1 **Moving disc Rheo meter or Oscillating** **Disk Rheo meter (MDR)**



FEATURES:

Rheometer is used for rubber quality control and it is widely used in rubber industry. It can offer accurate data for rubber optimization formula combination, such as the burning time, positive curing time, sulfide index and maximum and minimum torque.

SPECIFICATION:

Technical Index		YS-LAB-R811-1
Temperature Range	Room temperature to 200° C	
Heating rate	15°C/min, 30°C-180°C less than 8min	
Temperature Resolution	0.01°C	
Rate of temperature increase	15°C/min	
Torque Range	0-25N.M	
Torque Resolution	0.001N.M	
Swing Angle	±0.5° , ±1° , ±2° , ±3° (optional)	
Swing speed	100r/min(1.66HZ)	
Oscillatory frequency	100cycle/min	
Oscillatory amplitude	0.1	

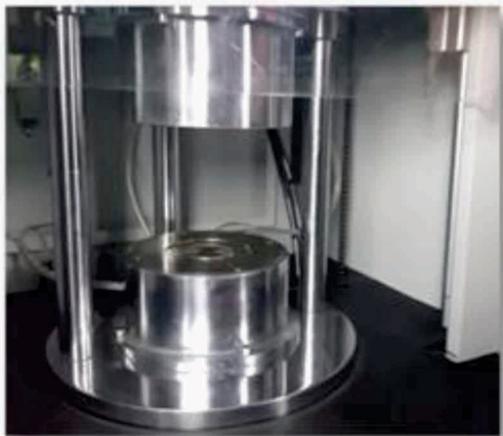
SOFTWARE DETAILS PICTURE



For STAR INTERNATIONAL PVT. LTD.

Beecher P. S. G.
Managing Director

YS-LAB-R811-1 **Moving/Modulating** **disc Rheo meter(MDR)**



FEATURES:

Rheometer is used for rubber quality control and it is widely used in rubber industry. It can offer accurate data for rubber optimization formula combination, such as the burning time, positive curing time, sulfide index and maximum and minimum torque.

YS-LAB-R812 Shearing Disc Mooney-Viscometer



FEATURES:

Mooney viscometer is used for testing reclaimed rubber or gross rubber viscosity, etc. Computer control, data display, automatic calibration, it is a precision laboratory test instrument of rubber industries. The machine is an instrument used for measuring the Mooney viscosity of a substance (mainly elastomers and rubbers). It contains a rotating rotor and heated dies, the substance encloses and overflows the spindle and the Mooney viscosity is calculated from the torque on the rotor. Compliant to ASTM D 1646, ISO 289-1/23/4, DIN 53523.

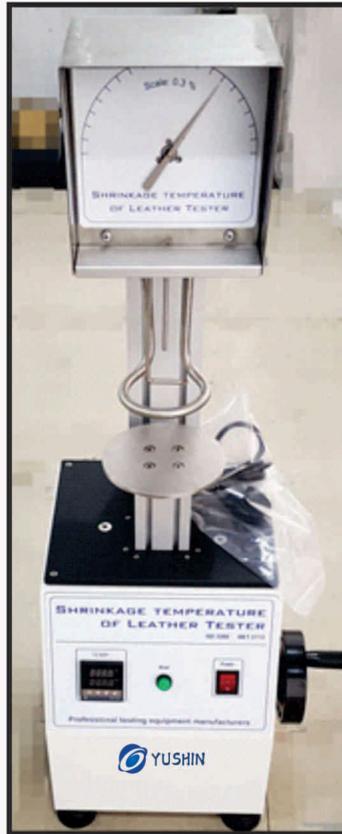
SPECIFICATION:

Technical Index	YS-LAB-R812
Temperature Range	Room temperature to 200°C
Temperature Resolution	0.01°
Temperature Control Accuracy	±0.3°C
Rotor Speed	2±0.02 R/M
Torque Range	0-200MV
Torque Resolution	0. 1MV
Test Report	Date, Temperature, Mooney scorch curve, MV, T5, T35, T3, T18, @15, @30

For STAR INTERNATIONAL PVT. LTD.

Signature
Managing Director

YS-LAB-R829 Hardness Tester Asker Scale



APPLICATION

The machine adopts advanced technology and precise temperature control, electromagnetic stirring, and LED display. It is mainly used to measure the temperature of various leathers when they shrink in slowly heated water to indicate the tanning characteristics of the leather.

STANDARD

SATRA TM 17, ISO 3380

STANDARD FEATURES

Model	YS-LAB-R829
The distance between the center line of the lower hook and the bottom of the beaker.	30mm±5mm
temperature range	Room temperature~150℃
Temperature control accuracy	<1℃
Heating Rate	2℃/min
Dial	Each half-square of the pointer is equivalent to a 0.3% shrinkage of the sample length.
Power	AC 220V,50Hz,7.5A
Product Size	300x400x500mm

STANDARD FEATURES

Technical Index	YS-LAB-W125
Magnification times of camera	1~50 times
Measurement method	5threads/each or 10threads/each
Sample type	woven fabric, knitted fabric
measurement direction	Vertical and horizontal
Display	threads/10mm and threads/inch
pixel	2MP, 1600x1200, 640x480.320x240
light source	Windows7/Xp/Vista/Mac OS/Linux
light source	LED
Connect	USB2.0
Dimension	11cm(L)*11cm(W)*13cm(H)
Weight	600g

YS-LAB-W125

Yarn Count Tester



APPLICATION

Fabric Density Meter, to determine the thread density of woven fabrics and wire meshes as well as the loop density of knitted fabrics.

TEST STANDARD

1. Chinese or English interface can be optional.
2. After the fabric image is amplified, calculated the density by specific software, to solve the traditional problem that caused visual fatigue by observing by human eyes.
3. Portable camera with USB interface can be directly connected with computer;
4. "Automatic Identification", "logo identification", "artificial recognition" three test functions are available to ensure different fabric can be measured.
5. Software has a calibration memory function, user can recognize different image on the same cloth.
6. After calibration, the software automatically shows a standard line, to verify if the calibration from user is accurate.

YS-LAB-W502

Circular Rub Fastness Tester



FEATURES:

This testing machine is used to evaluate the degree of material damage and surface color transfer after dry or wet friction.

TESTING STANDARD:

SATRA TM 8, BS-1006、BS-3144、BS-4060、BS-3424、QB/T2882

SPECIFICATION:

Technical Index	YS-LAB-W502
Weight	(24.5±0.5)N, (7.1±0.2) N
Test speed	(149±4.8) rpm
Wool felt	outer diameter (25±1) mm, center aperture (3±0.5) mm
Metal sheet:	75x65x5mm(LxWxH), φ 25 mm
Number of test pieces	60x 60mm or φ60mm
Dimensions	260x380x 490 mm
Power supply	220V,50Hz,5A
N. Weight	56kg

YS-LAB-W804 Colour Fastness Tester(Veslic Type)



PRODUCTION INTRODUCTION

This machine is used for testing the transference of color from the surface of one material to another by either wet or dry rubbing. Specimens are rubbed with dry, standard cotton cloth (Crocking cloth) and again, if applicable, with wet cloth. The staining of the crocking cloths is assessed with a Grey Scale

TEST STANDARD

ASTM F1319, AATCC 8/165, BS 1006 D02, GB/T 3920, ISO 105 D02/X12

STANDARD FEATURES

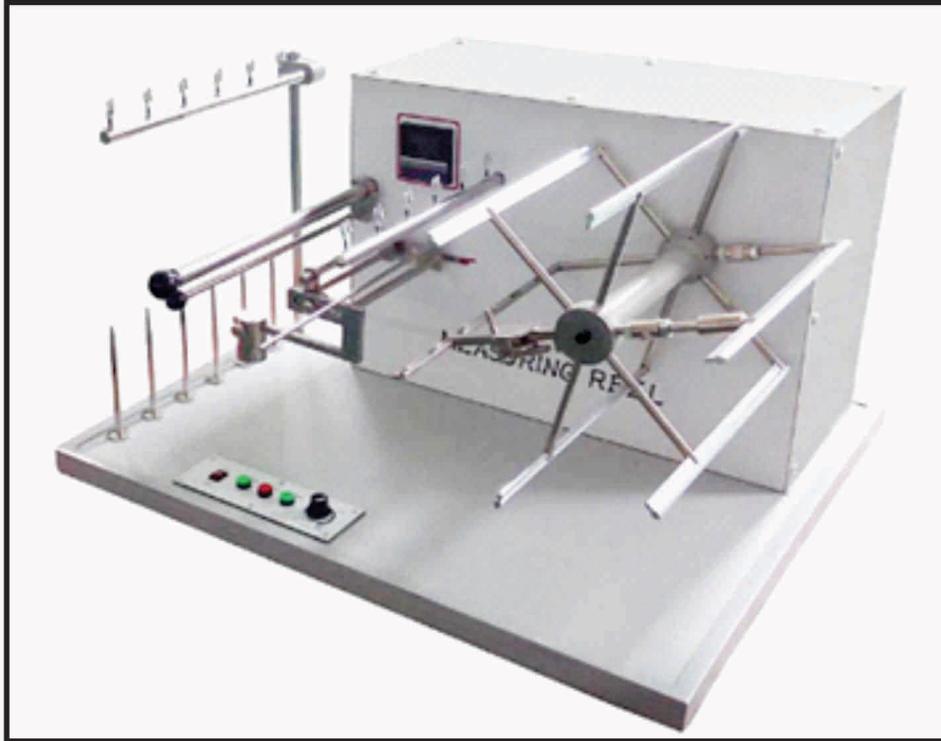
Technical Index	YS-LAB-W804
Control way	Electrical control
Diameter of the Rubbing Finger	16 ± 0.1 mm
Force on the Finger	9 N ± 0.2 N (917.43 gms)
Size of Crock Square	(5 x 5) cms
Center to center Traverse of the Finge	104 ± 3 mm
Counter (Re-settable)	1~9999×100
Size of Test Specimen	25 x 5 cm
Packaging Dimensions	710X350X520mm
Gross Weight with package	31kg(approx)

STANDARD FEATURES

Technical Index	YS-LAB-W807
Number of leas made at a time	6
Spread of each lea	60 mm
Swift/wheel circumference	1.5 yards or 1 meter
Operating speed	100 ± 2 rpm (20-250rpm adjustable)
.Digital Counter (Preset Type)	0 - 9999,LED
Traverse motion	35 ± 0.5 mm
Pre-tension	0 -100 cN
Dimensions	780 x 660 x 480 mm
Power supply	220V,50Hz
Weight	53 Kg

YS-LAB-W807

Length of Yarn Tester



APPLICATION

Automatic Wrap Reel is an ideal equipment to produce Skeins (lea/hank) of yarn for checking the yarn count and for lea strength testing. Supplied with 1 meter or 54 Inches Collapsible arm Swift/wheel (Specify)

To produce Skeins (lea/hank) of yarn for checking the yarn count and for lea strength testing.

TEST STANDARD

ASTM D1907 Standard Test Method for Linear Density of Yarn (Yarn Number) by the Skein Method

ASTM D2260 Tables of Conversion Factors and Equivalent Yarn Numbers Measured in Various Numbering Systems

ISO 2060 Textiles -- Yarn from packages -- Determination of linear density (mass per unit length) by the skein method

BS 2010 Method for determination of the linear density of yarns from packages

DIN 53830 Testing of textiles; determination of linear density of single and plied yarns (reel method)

YS-LAB-W813 Bursting Tester



Test Kit 50cm²



Test Kit 7.55cm²



FEATURES:

To determine the bursting strength and distension at burst of woven and knitted fabrics as well as technical textiles, non-woven, bonded fabrics, plastics, leather (artificial and natural) and cardboard.

ASTM D 3786, BS 4768, ISO 13938-1, ISO 2758, ISO 2759

SPECIFICATION:

Technical Index	YS-LAB-W813
Pressure measurement range	2.00Mpa, 0.1Kpa
Distension measurement range	Up to 70 ± 0.02 mm
Measuring areas	7.3cm ² (∅ 30.5mm) and 50cm ² (∅ 79.8mm)
Unit of measurement	kPa - kgf/cm ² - mmHg - lb/in ² - atm
Test methods	Constant Rate - Constant Pressure - Constant Distension - Timing
Hydraulic system rate of flow (adjustable)	50-500mL/min
Hydraulic oil	Glycerine 85%, distilled water 15%
Safety sensor	Over scale auto-stop
Diaphragm rubber thick	= 2 mm
Data port	RS232 port for printer connection and 3 pin Mini-DIN connector for PC
Dimensions	550 x 450 x 700 mm
Power supply	220V, 50Hz
Air requirements	600-800kPa
Net Weight	125kg

YS-LAB-W816

Water Spray Tester



USAGE

To determine the water repellency or surface wetting resistance of fabrics. Appearance of the specimen is compared against photographic chart.

TEST STANDARD

AATCC 22-Water repellency: spray test

STANDARD FEATURES

Technical Index	YS-LAB-W816
Spray nozzle	Converse face with 19 holes.(Center-1, First circle-6, Second circle-12)
Size of test specimen	180 x 180 mm square.
Rate of water spray	250 ml in 25 to 30 seconds.
Position of test specimen	Mounted on a ring and placed at an angle of 45°
Distance between center of spray	150 mm (± 2 mm)
Holder Dia.	150 mm (± 5 mm)
Plastic funnel dia.	150 mm (± 5 mm)
Height of the funnel with nozzle	200 mm (± 10 mm)
Dimensions	200 x 250 x 480 mm
Weight	5kg