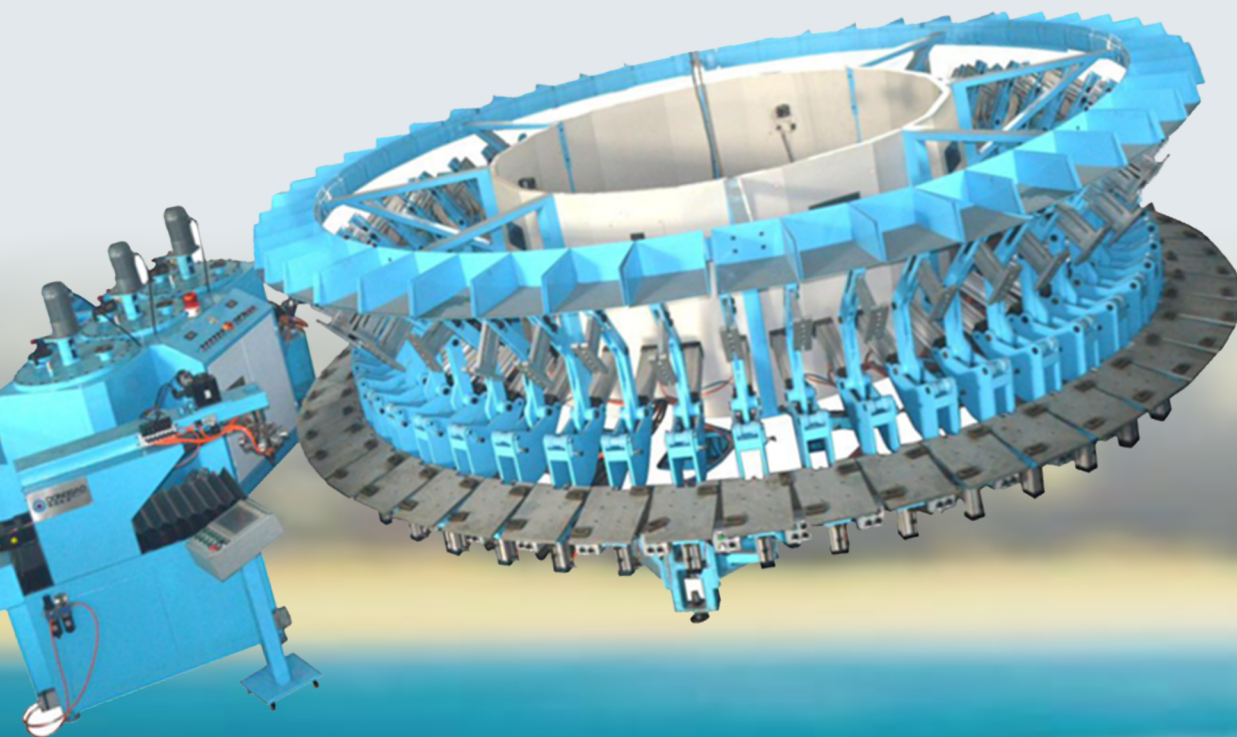




Kamhan Industrial Limited

RM.1012 BEVERLY COMMERCIAL CENTRE, 87-105 CHATHAM ROAD TSIM SHA TSUI
KOWLOON, HONGKONG. TEL: (852) 2368-1383 FAX: (852) 2368-2968



To: RUBY INTERNATIONAL TRADERS
Attn.:
Email:

From: KAM HAN FOOTWEAR SOLUTIONS LTD
Attn.: Mr. Swachit Chhajer
Email: cswachit@gmail.com
PI NO.: FS250231
DATE: 24TH.OCT, 2025



KAM HAN INDUSTRIAL LTD.

Room 1012-13 Beverley Commercial Centre, 87-105 Chatham Road, Tsim Sha Tsui, Kowloon, Hong Kong,

QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificate Number: SW21Q20278R0S

This is to Certify that the Quality Management System of

Organization Code/Unified Social Credit Code: 91330282066639237L

Registration Address : Room 1012-13 Beverley Commercial Centre, 87-105 Chatham Road,
Tsim Sha Tsui, Kowloon, Hong Kong,

Production/Business Address: Room 1012-13 Beverley Commercial Centre, 87-105 Chatham Road,
Tsim Sha Tsui, Kowloon, Hong Kong,

Has been Audited to Conform to the Following Quality

Management System Standard:

GB/T19001-2016/ISO9001:2015

for the Scope of Registration:

**Design, Development, Manufacturing and After-Sale Services of Computerized Flat
Knitting Machine.**

(Issued By)

Date of Issue: Apr 02, 2024

Date of Expiry: Apr 01, 2027



中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C201-M



A surveillance audit must be carried out every 12 months within the three-year validity period. Also, it is only valid along
the anniversary confirmation. Effectiveness of the certificate, you can search CNCA website: www.cnca.gov.cn or scanning QR

Certificate of Conformity



Certificate No.: YRT201710202C
Applicant: KAM HAN INDUSTRIAL LTD.
Address: Room 1012-13 Beverley Commercial Centre, 87-105
Chatham Road, Tsim Sha Tsui, Kowloon, Hong Kong,
Manufacturer: KAM HAN INDUSTRIAL LTD.
Address: Room 1012-13 Beverley Commercial Centre, 87-105
Chatham Road, Tsim Sha Tsui, Kowloon, Hong Kong,
Product: Martindale Abrasion Tester
Model: HD-P306, HD-P306-1, HD-P306-2, HD-P306-4, HD-P306-6, HD-P306-8
Brand Name: 
Report No.: YRT201710202E

The submitted products have been tested by us with listed standards and found in compliance with the following European Directives:

The EMC Directive 2014/30/EU

EN 61000-6-3:2007+A1:2011+A2:2012

EN 61000-6-1:2016

EN 61000-3-2:2006+A1:2009+A2:2016

EN 61000-3-3:2013

The test were performed in normal operation mode. The test results apply only to the particular sample tested and to the specific tests carried out. This certificate applies specifically to the sample investigated in our test reference number only.

The CE marking as shown below can be affixed on the product after preparation of necessary technical documentation.

Other relevant Directives have to be observed.



Approved by: _____

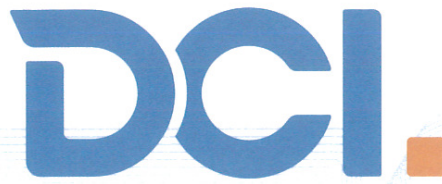


Department Manager
October 17, 2017

SHENZHEN YARUI TESTING CO., LTD.

Address: No. 620 HuaYuan Commercial Center, No. 347 XiXiang Road, XiXiang Town, Bao'An District, ShenZhen City

Tel.: +86-755-27912080 Fax.: +86-755-27916936 Website: www.yarui-lab.com



QUALITY MANAGEMENT SYSTEM CERTIFICATE

This is to Certify that the QUALITY MANAGEMENT SYSTEM of

KAM HAN INDUSTRIAL LTD.

Registered Address : Room 1012-13 Beverley Commercial Centre, 87-105 Chatham Road,
Tsim Sha Tsui, Kowloon, Hong Kong,

Audit Address : Room 1012-13 Beverley Commercial Centre, 87-105 Chatham Road,
Tsim Sha Tsui, Kowloon, Hong Kong,

has been assessed by DCI Certification Service and found to comply with

GB/T 19001-2016 idt ISO9001:2015

for the

Manufacture and sales of Leather Testing Equipment, Shoe Testing Equipment, Shoe Manufacturing Machine,
Textile Manufacturing Machine, Various Laboratory & Testing Equipment and Environmental Testing equipment

Certificate Number: 130843
Unified Social Credit Code: 91441900665019662G
Initial Certification Date: 22 May. 2013

Surveillance Audit Pass Label:



Certification Manager



Certificate Issue Date: 09 Jul. 2023

Certificate Expiry Date: 09 Jul. 2026

This certificate is issued by DCI Certification Ltd, The certificate holder shall perform the supervision and audit in accordance with the certification and accreditation rules and the certification contract, and affix a surveillance audit pass label to maintain the validity of certificate. To verify the validity of certificate, please visit our website (www.dci-global.com.cn) or scan the QR code above by WeChat, or visit the CNCA website. (www.cnca.gov.cn).

1F, Building 5, No. 169, Lianchuan Road, Minhang District, Shanghai

Email: info@dciglobal.com.cn

LOT 1 HD B604 S Tensile Testing Machine

1. HD-B604-S Tensile Testing Machine

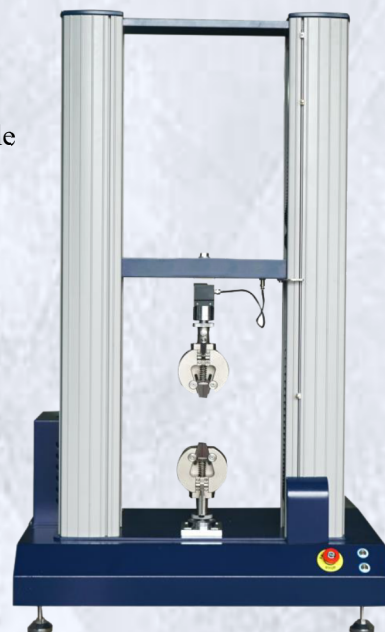
HD-B604-S Computerized Servo Double Column Tensile Test Machine, it is suitable for testing and analyzing the mechanical properties for plastic film, composite film, flexible packaging material, adhesive tape, rubber, paper and other products in tensile, peeling,

TEST APPLICATION

HD-B604-S has rich applications, equipped with more than 100 different sample fixtures for users to choose, can meet the test requirements of more than 1000 kinds of materials; According to the different materials of users, Haida also provides customized services to meet the testing needs of different users. tearing, heat sealing, adhesion, compression, bending. And it is also suitable for testing and analyzing the mechanical properties for corrugated cartons, honeycomb cartons, flexible packaging bags, plastic drums (edible oil, mineral water), paper drums, paper cans, IBC drums and hollow containers.

STANDARD FEATURES

Index	Parameters
Load capacity	20kN
Load cell brand	Germany brand TECSIS load cell
Motor	400w Panasonic servo motor
Driver	400w Panasonic servo driver
Screw	High precision imported ball screw
Control Mode	Computerized, windows mode operation
Test Speed	0.1-500mm/min (Adjustable)
Vertical space	1200mm (including clamp)
Load Resolution	1/250,000
Load accuracy	≤0.5%
Unit switching	gf/kgf/N//kN/LBf/T
Dimension	(L*W*H) 880*505*1470mm
Weight	90KG Approx
Power	1φ AC 220V



FEATURES

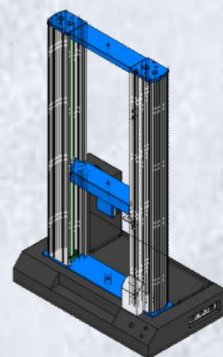
- A tester integrates multiple independent testing functions such as tensile, deformation, peeling, tearing, and compression, and provides a variety of test items for users to choose;
- Provide data analysis of constant tensile stress, elastic modulus, stress and strain;
- Double-pillar ball nut and screw drive to ensure high precision and smooth operation;
- The equipment adopts miniaturization and structural integration design, which can meet the test requirements of various occasions;

LOT 1 HD B604 S Tensile Testing Machine

- 1~500mm/min stepless speed change, which provides convenience for users to test under different test conditions;
- Intelligent configuration such as multi-level limit protection, overload protection, automatic high-speed return, and fault notification to ensure the user's operation safety;
- Embedded system and membrane key switch, which are convenient for users to conduct test operations quickly;
- The embedded control system effectively guarantees the security of the system and improves the reliability of data management and test operations;
- The system is equipped with 4 USB ports and 2 network ports to facilitate data transmission and external access of the system;
- Professional software provides statistical analysis of group test curve overlay analysis, maximum, minimum, average, and standard deviation.

TEST APPLICATION

HD-B604-S has rich applications, equipped with more than 100 different sample fixtures for users to choose, can meet the test requirements of more than 1000 kinds of materials; According to the different materials of users, Haida also provides customized services to meet the testing needs of different users.



SOME APPLICATION EXAMPLES

Basic application	Extended application (Need special accessories or restructuring)			
Tensile strength and deformation rate	Breaking force of ampoule	Film puncture force	Puncture force of lid of infusion bag with lid	Puncture/pulling force of soft rubber stopper
Breaking force	Combination cover opening force	ZD bottle cap tearing force	Oral fluid lid tearing force	Oral fluid cap puncture/pulling force
Heat seal strength	Pulling force of infusion bag cover inclined at 90 degrees	Pull-out force of lid for infusion bag with lid	23 degree tilting cap pulling force	Piercing/pulling force with bottle cap and stopper
Tear resistance	90 degree peel force of tape	Perfect bound pages tearing force	90 degree water-based plaster peeling force	Adhesive tearing force
180 degree peel	Adhesive strength test (soft)	Adhesive strength test (hard)	Peeling force of hose cap	Catheter and catheter joint disengagement force
90 degree peel	Makeup brush bristles pulling force	Toothbrush bristles pulling force	Rope breaking force	Jelly cup and yogurt cup opening force
Fixed tensile test	Milk cup cup film peeling force	Extraction force of rubber plug	45 degree peeling force of bottle film	Ziplock bag mouth pull force
Down test	Magnetic card core peeling force	90 degree peeling force of magnetic card	Heat-sealing film tearing force	Protective film separation force
Puncture retention	Release paper separation force	Trouser tearing force	Unwinding force of tape	Pressure resistance of plastic bottles

LOT 1 HD B604 S Tensile Testing Machine

GENERAL SPECIFICATIONS

Estimated Packaging Dimensions: (W*D*H) 690*1080*1790mm

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

Estimated Gross Weight: 270kg

HS Code: 9024800000

SOFTWARE – YDL

The screenshot shows the YDL software interface. At the top, there are four digital displays showing 0.000 with units: kgf, mm, mm, and s. Below these are tabs for Test Standard, Force-Time, Elong-time, Force-Elong, Stress-Strain, Multi-Graph, and TestResult. The Test Standard tab is active, showing a table for Sample Data and a Control Method section. The Test Result tab is also visible, showing a table for Test Results.

No.	Shape	Gaugel...	Area(m...	Width(mm)	Tickne...	Out.Di...	In.Dia...	Property
2010109	Rectangle	100.000	25.000	25.000	1.000	1.000	0.000	0

Number	Direction	Mode	Value	Switch	Condi...	PauseTime	Zero	Contro...	NextProc...	Cycles	Next
1	Compress	FixSpeed	12.50mm/min	Break	80.000%	0.000s	Time to reset	100	End		

Number	MaxForce(kgf)	Width(mm)	Side pressure strength(kgf/mm)

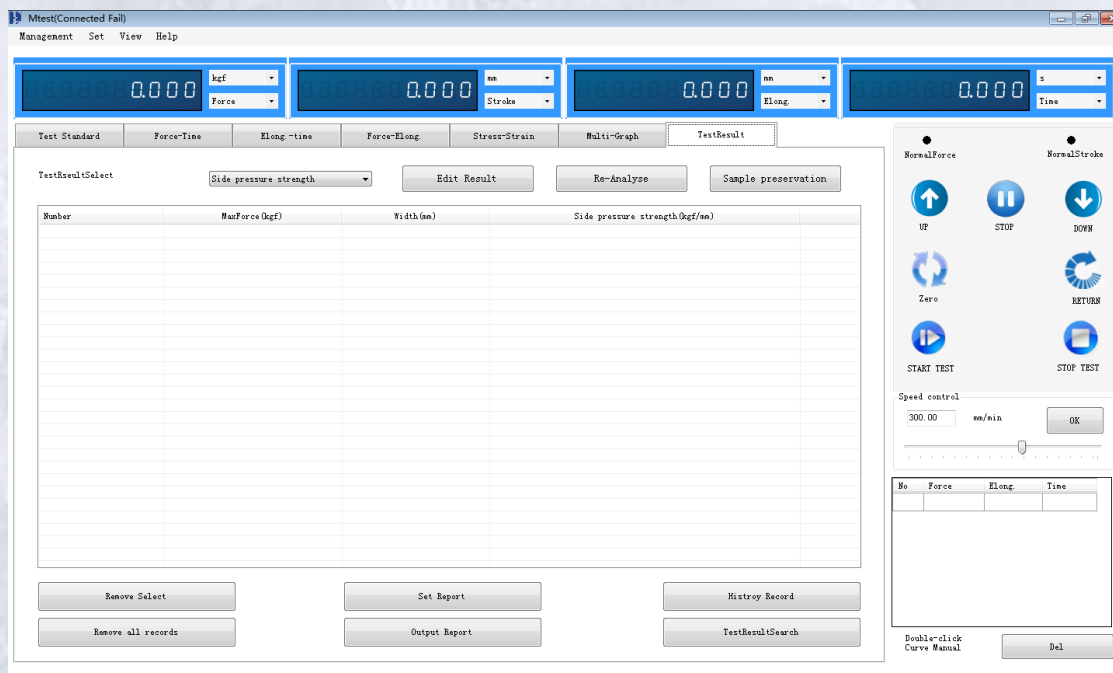
USER SETTING PAGE

The screenshot shows the YDL software interface in the User Setting Page. It features three graphs: Force-Time Graph, Elong-Time Graph, and Force-Elong Graph. The Force-Time Graph shows Force(kgf) on the y-axis (0.0 to 1.2) and Time(s) on the x-axis (0.0 to 1.2). The Elong-Time Graph shows Elong(mm) on the y-axis (0.0 to 1.2) and Time(s) on the x-axis (0.0 to 1.0). The Force-Elong Graph shows Force(kgf) on the y-axis (0.0 to 1.2) and Elong(mm) on the x-axis (0.0 to 1.0). On the right side, there are control buttons for UP, STOP, DOWN, Zero, RETURN, START TEST, and STOP TEST. Below these buttons is a Speed control section with a value of 300.00 mm/min and an OK button. At the bottom, there is a table for Test Results and a Del button.

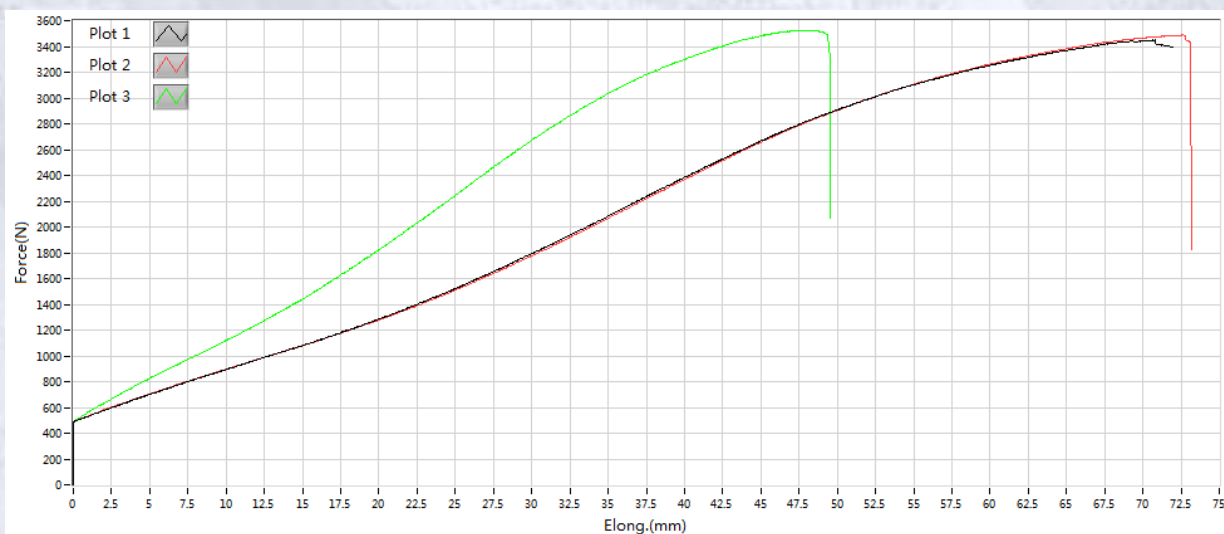
No.	Force	Elong	Time

LOT 1 HD B604 S Tensile Testing Machine

Curves display picture



Test result picture



Including below clamping fixtures:

1) Shaped 'C' Clamp

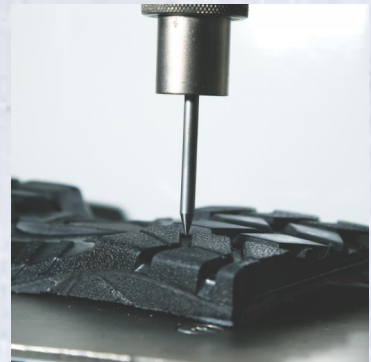
This specially shaped 'C' clamp is normally used in the peel strength testing of footwear sole to upper. It can also be used as a general purpose clamp.



LOT 1 HD B604 S Tensile Testing Machine

2) Nail Penetration Clamp

Nail penetration – shoe bottoms and protective midsoles’ (figure 2) is an example of a puncture test



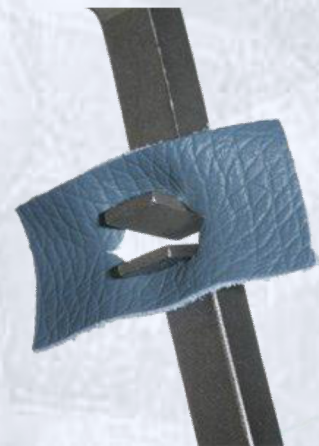
3) Needle Tear Clamp

‘needle tear test’, this device allows the sample material to be clamped and a series of needles pushed through the material.



4) Baumann Tear Clamp

It intended to determine the force required to tear a material. The method is applicable to all types of leather and is generally not used with any other type of material.



LOT 1 Procurement of Leather Physical Testing Machine

2. HD-P813 Ball Burst Tester/ Lastometer

INTRODUCTION

Lastometer is to determine distension and strength of leather grain.

STANDARD FEATURES

Load	Max 1000N
Diameter of steel ball	$\phi 6.25$ mm
Diameter of test area	$\Phi 25$ mm
Test Speed	(12 ± 2) mm/min
Specimen diameter	45mm
Power	1 phase, AV 220V, 50/60HZ



3. HD-P301 Flex Resistance Tester Flexor Meter (bally)

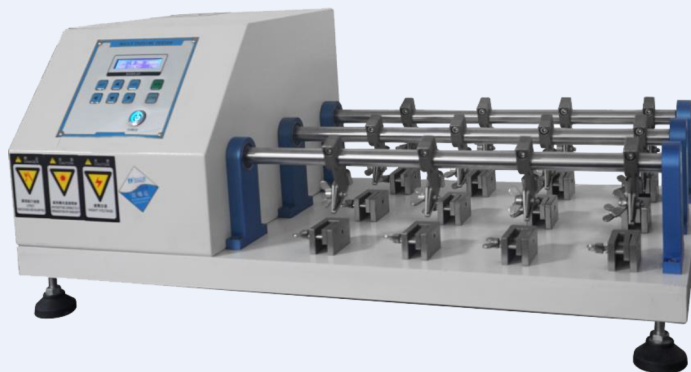
PRODUCT INTRODUCTION

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..



STANDARD FEATURES

Fixture option	12 Groups
Specimens	70x45mm
Bending Angle	$22.5 \pm 0.5^\circ$
Bending speed	100 ± 5 cpm
Counter	LED, 0~999,999, Automatic shutdown
Machine Size	(LxWxH) 785x460x320mm
Power	1 ϕ , AC220V/50HZ
Weight	80kg

LOT 1 Procurement of Leather Physical Testing Machine

4. HD-E702-150-K40 Water Vapor Permeability Tester

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.

STANDARD

ISO 20344 6.6 Determination of water vapour permeability(WVP)

STANDARD FEATURES

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	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
Control ways	TEMI 880 controller, touch screen control
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



5. HD-P46B Resistance To Water Penetration To Leather-penetrometer Tester

APPLICATION:

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

TECHNICAL PARAMETER

Test position	4 sets
Counter	LCD,0~999,999
Test sample size	75*60cm
Number of cylinder	Four cylinders, diameter: 30.0±0.5mm
Crank motion	50r/min
Absorbent cloth size	120*40mm
Amplitude	1.0±0.1mm; 1.5±0.15mm; 2.0±0.2mm; 3.0±0.3mm; (4.0±0.4mm; or 6.0±0.6mm)
Dimension (W×D×H)	42x50x40 cm
Weight	53kg
Power	1φ,AC 220V,2A
Accessory option	Scale



LOT 1 Procurement of Leather Physical Testing Machine

6. HD-P306-8 Martindale Abrasion Test Machine

GENERAL SPECIFICATIONS

Packaging Dimensions: (W x D x H) 70cm x 75cm x 47cm
 Power supply source: single-phase, 220V $\pm$ 10%, 50/60Hz (can be appointed)
 Gross Weight: 110KG

PRODUCT DESCRIPTION:

It mainly applies to the resistance test of textile and outside layer, lining or under layer of the footwear or 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.

SPECIFICATIONS

Working stations: 8

Drive system is PLC, programmable control with large touch-screen

Abrasion test

Max stroke of movement 60.5 $\pm$ 0.5mm

Weight of holder and spindle 200 $\pm$ 1g

Pilling test

Max stroke of movement 24 $\pm$ 0.5mm

Weight of holder and spindle 155 $\pm$ 1g

Included Accessories (1 for each station)

Abrasion test (To ISO 12947-1)

Mounting weight (2.5 $\pm$ 0.5kg, for both abrasion and pilling test)

Pilling instruments holders (Dia. 38 mm)

Loading Weights (395 $\pm$ 7g)

Loading Weights (595 $\pm$ 7g)

Pilling Test (To ISO 12945-2)

Linear adaptor. To convert to straight-line motion.

Sample Retaining Rings for pilling test

Pilling test holders (Dia. 90mm)

Loading Weights (260 $\pm$ 1g)

LOT 2 Procurement Of Foot Wear Physical Testing Machine

1. HD-P307 Soling Materials Abrasion Machine

SPECIFICATION

Specimens size	$\phi 16 \pm 0.2 \text{mm}$, 6-14mm (thickness)
Specimen load	2.5N, 5N, 10N
Fixture lateral displacement	4.2mm/wheel each lap
Wheel diameter	$150 \text{mm} \pm 0.2$
Wheel length	460mm
Wheel rotate speed	$40 \pm 1 \text{r/min}$
Travel reservations	40m/20m
Grinding Wheel	# 40
Abrasion speed	0.32m/sec
Dip angle	3° the angle of the specimen back shaft with vertical roller face
Machine Size	(L×W×H)70×45×45cm
Weight	60KG
Power Supply	AC $220 \pm 10\%$, 50Hz/ 60Hz



APPLICATION

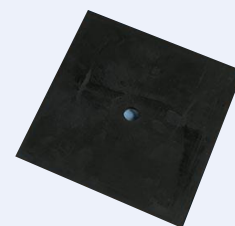
DIN Type Abrasion Tester is to measure the abrasion resistance of rubbers (vulcanized thermoset rubbers and thermoplastic elastomers) that are subject to abrasive/frictional wear in their actual service, such as tires, conveyor drive belts, leather and shoe soles

TEST STANDARD:

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

EQUIPMENT DETAILS of Certified Rubber

Description : This certified DIN Abrasion rubber is used to check that the DIN Abrasion machine is performing correctly. This is achieved by determining the weight loss of the certified rubber against the standard.



EQUIPMENT DETAILS of Abrasive Paper

Description : This is a standard 60 grit abrasive paper specifically for the DIN Abrasion test machines. It is cut to size and is immediately ready for use with the testing machine.



EQUIPMENT DETAILS of Sample Cutter for Din Abrasion Tester

This sample cutter allows cutting of rubber samples according to the relevant international testing standards. it is handy and accurate.



LOT 2 Procurement Of Foot Wear Physical Testing Machine

HD-A837 ELECTRONIC BALANCE

STANDARD FEATURES

Measuring range	1KG
Outside dimension	320×200×290mm
Power	220V,50Hz
Precision	±1mg



PRODUCT DESCRIPTION

The electronic balance adopts imported high-precision sensors with a double overload protection device, so as to extend its service life. It has automatic weight calibration & linear temperature compensation functions, with liquid crystal display, and triple backlight mode option

2. HD-P805 Whole Sole Flexing Machine

PRODUCTION 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

TEST STANDARD: EN344 ,SATRA TM161,ISO 17707,GB/T20991

STANDARD FEATURES

Bending angle	90°
Bending speed	125-150/min (Speed adjustable)
Diameter of mandrel	30mm
Width of clamp	144mm
Counter	LCD 0-999999
Contemporary test	3 Samples
Counter	LED,0-999,999 automatic shutdown
Dimensions (L X W x H)	105x53x30cm
Weight	100kg
Power	1φ,AC220V,3A



LOT 2 Procurement Of Foot Wear Physical Testing Machine

3. HD-P310 Shoe Lace Abrasion Machine Lace To Eyelet Method

APPLICATION

The shoelace and shoe eye wear tester passes a section of the shoelace through an eyelet clamped by a fiberboard, and the shoelace is bent 90 degrees through the eyelet. The fiberboard and the two parts of the shoelace are 45 degrees each. Then the shoelace is tightened under a standard load and repeatedly pulled back and forth through the shoelace.

STANDARD : BS 5131 : 3.6 : 1991 ISO22774 SATRA TM93

TECHNICAL SPECIFICATIONS:

1. Number of sample groups: 6 groups
2. Reciprocating stroke: 76 ± 2 mm
3. Test speed: 100 ± 5 times/minute
4. Clips: 6 groups
5. Weights: 455 ± 5 g, 6 pieces
6. Controller: Color PLC touch integrated control
7. Counting range: 0-9999999 (4 groups of independent counting)
8. Standard shoe eyelet: brass $\Phi 4.5$ mm, total length 5.5mm
9. Power supply: 1 ϕ , AC220V
10. Volume: 480×420×380mm
11. Weight ≈ 75 kg (excluding weights)



HD-P313 Shoe Lace Abrasion Machine -lace To Lace Method

INTRODUCTION

The tester is used to test the wear resistance of shoelaces. The shoelace installation method is to take two shoelaces, hook the middle sections together to form one right and one left. The right clamp (moving clamp) of the machine clamps the two ends of the right belt. After clamping, the two ends are naturally 25mm apart. With the help of a sample gauge, the right belt is hooked with the left belt at 52.2° , and the hook point is 120mm away from the clamping point. Then, one end of the left belt is clamped with the left clamp (fixed clamp), and the other end is placed in the pulley groove, and a hanging weight is tied below. The clamping point is naturally $35+5$ mm away from the wheel groove. During the test, the moving clamp reciprocates left and right at a constant speed in a straight line, so that the middle sections of the two shoelaces rub against each other. The test is performed until the specified number of frictions is reached or the shoelaces break, and the number of frictions is recorded.

STANDARD

DIN-4843, QB/T2226, GB/T3903.36, SATRA TM154 GB 25037-2010

TECHNICAL SPECIFICATIONS:

1. Maximum distance between the moving clamp and the fixed clamp: 310mm (max)
2. Moving clamp stroke: 35mm
3. Moving clamp speed: 60 ± 6 cycles/min
4. Clamp: 4 sets
5. Sample specification: Angle 52.2° , distance 120mm
6. Eyelet clamp: 200mm*20mm
7. Weight: 250 ± 3 h, 4 pcs
8. Counting: 0~999, 999
9. Horsepower: DC 180W
10. Machine size: 500×520×420mm
11. Weight: 66kgs
12. Power supply 1 ϕ , AC110V, 10A/220V



LOT 2 Procurement Of Foot Wear Physical Testing Machine

4. HD-P255 Bata Belt Flexing Machine

PRODUCT DESCRIPTION

It tests the specimen by simulating a personal walking in a normal way so as to determine the resistance of the specimen to flex. Users can set the number of tests themselves, and it will stop automatically when the number of tests has been reached. More than one specimen can be tested once in order to enhance work efficiency.

STANDARD PARAMETER

Belt Dimension	Length: 1930±50mm, Width: 140±5mm
Speed	90±8 cycles/min
Big Wheel Diameter	225±5mm
Small Wheel Diameter	60±0.5mm, 90±0.5mm, 120±0.5mm
Capacity	Max 6 sole
Counter	0-999,999
Weight	170kg
Dimension(W×D×H)mm	1450×600×600
Power Supply	220 V ± 10%, 50Hz/60Hz 400W



5. HD-P828 Whole Shoe Flexing Machine (dry & Wet)

PRODUCT DESCRIPTION

Dynamic Footwear Water Resistance Tester is designed to determine the dynamic water resistance of all types of shoes.

TEST STANDARD

SATRA TM 230

STANDARD PARAMETER

Test Quantity	2 Sets
Flexing Angle	25±2°
Flexing Speed	60±6cpm
Counter	0~999,999
Dimension (W×D×H)	85×70×80cm
Weight	240kg
Power	1φ, AC220V, 50/60Hz, 3A



Lot 03: Procurement of Leather Physical Testing Equipment

1. MS-554-DSHT Digital Durometer

Multi-Scale (A/B/C/D/DO/O)

PRODUCT DESCRIPTION

This precision instrument is designed to measure the hardness of rubber, plastic, and other elastomeric materials across multiple Shore scales. It offers high accuracy and ergonomic design in a durable, portable format, making it ideal for both laboratory and field use.

Resolution: Half of one degree,

Shore hardness scale: (shore A.. shore C. shore D.,)

Range: 0 to 100,

Material: Stainless steel and Anodized Aluminum,

Weight: 230gr, it is convenient storage/protective case.



2. HY-699C Digital Thickness Gauge

High-Precision Digital Thickness Tester (12" / 300 mm Jaw Depth)

PRODUCT DESCRIPTION

This precision digital thickness gauge is designed to measure the thickness of materials like leather, artificial leather, PU, PVC, and other flexible or semi-rigid materials. Featuring a large jaw depth, high-resolution digital readout, and robust construction, it ensures accurate, reliable, and easy-to-read measurements for both laboratory and industrial quality control applications.

This hardness tester is suitable for Low hardness plastics, leather, all kinds of rubber, multi-resin, wax and other hardness testing equipment

Dial values: 0 ~ 100 HA, 0 ~ 100 HC, 0~100HD

measuring range: 10 ~ 90 HA, 10 ~ 90 HC, 20~90HD

Pressure needle stroke: 2.5 mm,

Pieces of the pressure needle size: $\phi 0.79$ mm, SR0.1mm

Weight: 0.2 kg



Lot 03: Procurement of Leather Physical Testing Equipment

3. HD-W804 Color Fastness Rubbing Tester

PRODUCTS DESCRIPTION

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

TESTING STANDARD

ASTMF1319, AATCC 8/165, BS 1006 D02, GB/T 3920, ISO 105 D02/X12, JIS L0849

TECHNICAL DETAILS

Technical Index	HD-W804
Control way	Electrical control
Diameter of the Rubbing Finger	16 ± 0.1 mm
Force on the Finger	$9 \text{ N} \pm 0.2 \text{ N}$ (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)



4. HD-P245 Leather Shrinkage Tester

APPLICATION

The sample prepared according to the standard requirements is placed in water and heated. When the water temperature rises, the sample suddenly shrinks. The test at this time is called the shrinkage temperature.

The test measures the shrinkage temperature of various types of leather.

REFERENCE STANDARD

QB/T 2713 and ISO 3380 and other standards.

TECHNICAL SPECIFICATIONS

1. Sample: $(50 \pm 2) \text{ mm} \times (3 \pm 0.2) \text{ mm}$ or $(2 \pm 0.2) \text{ mm}$, four
2. Beaker: 1000ml, depth 140mm
3. Heating rate: $2 \pm 0.2^\circ \text{C/min}$
4. Indicator resolution: 0.3%
5. Machine size: 38x35x85cm
6. Weight: 26kg.



Lot 03: Procurement of Leather Physical Testing Equipment

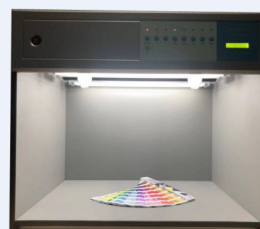
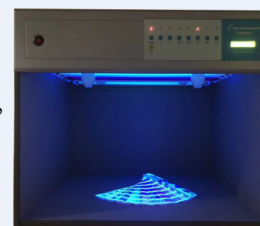
5. HD-G818 Light Cabinet For Colour Assessment

APPLICATION

Color Assessment Cabinet, suitable for all industries and applications where there is a need to maintain color consistency and quality-e.g. Automotive, Ceramics, Cosmetics, Foodstuffs, Footwear, Furniture, knitwear, Leather, Ophthalmic, Dyeing, Packaging, Printing, Inks and Textile.

Since different light source has different radiant energy, when they arrive on the surface of an article, different colors display. With regard to color management in industrial production, when a checker has compared the color consistence between products and examples, but there may exist difference between light source used here and light source applied by the client. In such condition, color under different light source differs. It always brings following issues: Client makes complaint for color difference even requires for rejection of goods, seriously damaging company credit.

To resolve the above problem, the most effective way is to check good color under same light source .For example ,international Practice applies Artificial Daylight D65 as standard light source for checking goods color.



FEATURES

1. Provide several light sources, i.e. D65, TL84, UV, F/A, CWF, U30
2. Apply microcomputer to switch between the light sources quickly.
3. Super timing function to record use time of each light source separately.
4. All fittings are imported, ensuring quality.

INSTRUCTIONS FOR LIGHT SOURCE

Name	kelvin	watt	Lamp Type	Uses
D65	6500K	2×18W	Fluorescent Artificial Daylight PHILIPS TLD18W/965	International Standard Artificial Daylight
TL84	4000K	2×18W	Fluorescent PHILIPS TLD 18W/840	European, Japan Shop light Source
CWF	4150K	2×18W	(Cool White Fluorescent) American Standard	Cold fluorescent, American store light source
F/A	2700K	4×40W	Incandescent PHILIPS E27	Sun-setting Light Yellow Light Source
UV	/	1×18W	Fluorescent PHILIPS 18W/BLBBLACK LIGHT	Ultraviolet Lamp
U30	3000K	2×18W	Warm White Fluorescent American Standard	American commercial light source

SPECIFICATIONS

Inner Size	675x455x415mm
Dimension Size	710x540x625mm
Packaging Size approx	850x670x540mm

LIGHT SOURCE: D65, TL84, CWF, UV, F/A, U30.

Lot 03: Procurement of Leather Physical Testing Equipment

6. HD-P807 Leather Softness Tester

APPLICATION

This product is to test the softness of the leather, to gain the information that whether the same lot of leather with the same softness or whether all parts of the single piece with the same softness.

STANDARDS

IULTCS.IUP 136, ISO 17235

SPECIFICATIONS

Display	Digital-type
Load	530±10g
Scale	0.1~10 mm
Volume	12×49×16cm
Weight Approx.	5.3kg



Lot 04: Procurement of Footwear Physical Testing Equipment

1. HD-P818 Sole Adhesion Tester

INTRODUCTION

Sole Adhesion Tester is used for the sole adhesion of the footwear.

Test standard: GB/T3903.3、BS 4676、SATRA TM404

STANDARD FEATURES

1. Capacity: 1000N.
2. Accuracy: 0.25%
3. Blade width: (20±0.1) mm, (10±0.05) mm.
4. Volume: 33*20*18cm.
5. Weight: 12kg.
6. Power supply: AC220V, 5A.



2. HD-844-DLAJ Digital Last Assessment Jig

SPECIFICATIONS:

Digital last assessment jig designed to determine the last measurements (Bottom length, waist width, ball width, instep width, heel width toe spring, etc.). Lasts and the shoes made on must match the feet that intended to The last assessment jig provides accurate repeatable dimensions using two digital readouts on both left and right foot lasts. jig manufactured in aluminium and clear plastic sheet. two built-in digital slides, both can be zeroed at the appropriate datum position. incorporates an angled measurement device that facilitates the location of the last joint line. A separate pair of digital callipers and a toe spring gauge should be supplied.

Material: Aluminium and clear plastic sheet, Dimensions LxWxH, 50 x 30 x 20 cm, Weight: 10 kg, Digital calliper: The calliper is easy to use with a digital display to measure up to 0.01 mm (0.0005 inches)



-just for reference

3. HD-847-FSS Foot Size Stick

Description :

Foot size stick designed to determine the specific size of foot for Men's, Women's and Children's

Scales: English shoe sizes and millimetres,

Material: wood,

Weight: 500 gms.



-just for reference

Lot 04: Procurement of Footwear Physical Testing Equipment

4. HD-850-FB Fitting Board (Shoe Size Indicator)

Description :

Fitting board is invaluable to shoe retailers. It enables them to quickly establish the size of shoe most likely to fit the customer.

-just for reference



5. HD-852-SQBHG Shoe Quarter And Back Height Gauge

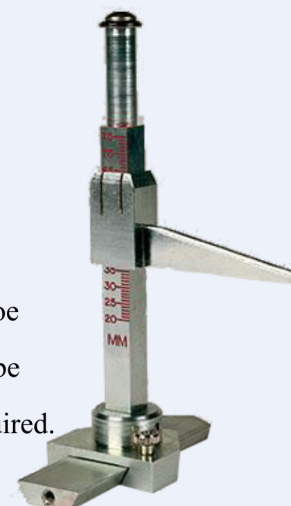
Description

The height of the top-line of a shoe at the back and at the quarters affect fit and comfort. If the back height is too low heel slip may occur during walking. If the quarters, particularly the outside quarter, are too high the top-line may rub the ankle bone.

This is an instrument designed to measure the height of the top-line of the shoe above the insole surface at the seat to check that footwear is satisfactory. It can be used for all sizes of shoe and incorporates an adjustment which allows the measuring positioning for quarter height to be varied correctly with shoe size. It can be easily changed to measure left and right shoes as required.

To carry out measurements the gauge is placed inside a shoe on the insole at the seat. It is a simple but accurate device and is supplied with full instructions and tables giving measurement positions for adults' as well as children's shoes. It is plated to prevent corrosion.

It is compact and measures 80 x 40 x 135mm high.



-just for reference

6. HD-858-ISSG Internal Shoe Size Gauge

Description

This simple and easy to use device is used to determine the size of footwear. The flat bar is inserted in the shoe and pushed into the toe. The slider is then moved along the scale until the curved bar touches the heel. The longest length can be found by moving the device vertically and locating the curved bar to the point of maximum heel curvature. At this point the size of the footwear can be read off the scale.

Range : 190mm - 330mm



-just for reference

7. HD-864-HHMG Heel Height Measuring Gauge

Description

It is to measure the heel height of your lasts in centimeters. Measures up to 12 cm heel height.



LOT 5: Procurement of General Laboratory Machines

1. HY-7762 MVF Motorized Vacuum Former

Motorised Vacuum Former (Precision Single-Bladder Vacuum Press)

PRODUCT DESCRIPTION

The Motorised Vacuum Former is an advanced, compact forming system designed for creating precise pullover shells on lasts using PU/PVC foil. Ideal for professional shoe model-making and orthotic labs, this system ensures tight, seamless bonding with efficient sealing and controlled heating. It features a unique perimeter airflow, secure locking handle, and quick-release bladder frame for superior usability and consistent forming quality.

TECHNICAL SPECIFICATIONS

Parameter	Specification
Vacuum System	Single bladder with unique perimeter airflow
Frame Mechanism	Quick-release bladder frame with locking handle
Seal Control	Locking handle assures perfect vacuum seal
Pressure Control	Built-in pressure relief valve
Working Surface	A3 Size 297 × 420 mm
Internal Dimensions	L: 432 mm × W: 254 mm × H: 76 mm
External Dimensions	L: 635 mm × W: 420 mm × H: 178 mm
Vacuum Depth	70 mm
Forming Material	PU/PVC foil (2 to 3 mm thickness)
Heating Temperature	Adjustable: 0°C to 300°C
Power Consumption	500 W
Weight	2025 kg

KEY FEATURES

- Compact A3-Sized Working Surface: Ideal for forming last shells and prototypes.
- Efficient Vacuum System: Ensures deep forming with a 70mm vacuum depth.
- Adjustable Heating: Controlled temperature up to 300°C for flexible material compatibility.
- Quick Setup & Operation: Features a fast-release frame and secure sealing mechanism.
- Durable Build: Designed for frequent use in professional and educational environments.

APPLICATIONS

- Forming pullover shells on shoe lasts
- Thermoforming of orthotic and insole materials
- Sample model creation for footwear design
- Use with PU and PVC sheets



LOT 5: Procurement of General Laboratory Machines

2. HD-EMX-Foot Arch Measuring 3d Scanner

Foot Scan-F2 Foot 3D Scanner

PRODUCT DESCRIPTION

The Foot Arch Measuring 3D Scanner is a high-precision vertical scanning system engineered to capture detailed 3D representations of the human foot, including arch contours. It combines fast scanning speed, excellent mesh accuracy, and powerful analysis software, making it ideal for orthotics design, footwear fitting, medical diagnostics, and biomechanics research.

TECHNICAL SPECIFICATIONS

Parameter	Specification
Scanner Type	Vertical
Working System	Foot 3D Scanner V5.0
Scanning Speed	58 seconds (one-way), max 20 seconds full scan
3D Accuracy	± 0.3 mm to ± 0.5 mm
Scan Volume	$350 \times 170 \times 150$ mm
Data Output Formats	ASC, STL, OBJ
Colour Depth	64-bit
Sensors	Capacitive sensor array for high-resolution scanning
Electronics	Embedded microelectronics for precise measurement
Software	Graphical & statistical foot pressure and arch analysis software
Display	Interface Integrated touch screen
Dimensions (L×W×H)	$570 \times 390 \times 310$ mm
Weight	70 100 kg

KEY FEATURES

- **Fast & Accurate Scanning:** Captures a clean 3D mesh in under 10 seconds with high fidelity.
- **High Resolution:** ± 0.3 to 0.5 mm accuracy ensures reliability for clinical and manufacturing use.
- **Advanced Software:** Provides detailed analysis of foot structure, pressure distribution, and arch profiling.
- **Versatile File Output:** Compatible with standard 3D formats (ASC, OBJ, STL) for CAD/CAM and modeling systems.
- **Touchscreen Control:** Intuitive operation with integrated display and controls.

APPLICATIONS

- Orthotic insole design and customization
- Footwear design and sizing
- Medical and orthopedic diagnostics
- Biomechanical and sports analysis



LOT 5: Procurement of General Laboratory Machines

3. HY-300A Electronic Weighing Machine

PRODUCT DESCRIPTION

This high-precision electronic weighing machine is specifically designed for measuring the density and specific gravity of solids and liquids, including materials such as rubber, plastic, wire, glass, alloys, and more. It offers both air and liquid weighing modes, making it ideal for laboratories and quality control departments involved in material characterization and product testing.

TECHNICAL SPECIFICATIONS

Density Resolution	0.0001 g/cm ³
Weighing Range	0.005 g 600 g
Measurable Weight (High Precision)	0.0001 g 300 g
Density Measurement Range	0.001 99.999 g/cm ³
Minimum Readability	0.01 g / 0.005 g
Measurement Modes	Solid Mode / Liquid Mode
Indications Displayed	- Weight in Air - Weight in Water - Specific Gravity
Sink Size (Integrated Moulding)	165 × 115 × 85 mm
Sensor Dimensions	175 × 130 × 110 mm
Water Tank Dimensions	154 × 108 × 88 mm
Measuring Tray Size	128 × 82 mm
Wind Shield	Airtight anti-draft shield included



KEY FEATURES

- Dual Mode Operation: Capable of measuring both solids and liquids with high accuracy.
- Precise Gravity Display: Offers accurate readings of mass in air, in water, and density value.
- Built-in Molded Water Sink: Integrated design for enhanced stability and durability.
- Wide Application Range: Suitable for diverse materials across various industries.
- Easy Calibration & Operation: User-friendly interface for fast setup and measurement.
- Protective Shielding: Airtight wind shield ensures environmental stability for precision weighing.

APPLICATIONS

- Rubber & Plastic Manufacturing
- Wire and Cable Testing
- Electrical Appliance Quality Control
- Sports Equipment and Footwear Industries
- Hard Alloy & Glass Density Testing
- Research Labs & Material Science

LOT 5: Procurement of General Laboratory Machines

4. HD-ACS-848 Air Conditioner System

Model: 1.5-Ton Inverter Split Air Conditioner Colour: White

PRODUCT DESCRIPTION

This high-efficiency 1.5-ton inverter split air conditioner is ideal for laboratory environments with dimensions up to 9.25 m x 5 m x 4.2 m. Equipped with advanced cooling technology and intelligent operation modes, it ensures optimal climate control with quiet operation and superior air quality.

TECHNICAL SPECIFICATIONS

Parameter	Specification
Type	Wall-Mount Split AC
Capacity	1.5 Ton
Cooling Technology	5-in-1 Convertible Cooling Modes
Compressor Type	Inverter Compressor (variable speed, energy-efficient, low noise)
Condenser Coil	100% Copper (for better cooling and durability)
Cooling Capacity	Suitable for lab size: 9.25 x 5 x 4.2 m
Energy Efficiency	Highly energy efficient with adaptive cooling
Air Filtration	-Easy Filter Plus (Anti-Bacterial) - Air Purification System
Special Features	- Auto Clean (Self-Cleaning)
	- Filter Cleaning Indicator
	- Indoor Temperature Display
	- Display On/Off
Operating Modes	- Beep Sound On/Off
	- 24-Hour Timer
	- Auto Restart
	- Auto Mode
	- Fast Cool
	- Good Sleep
	- Dehumidification
	- Fan Mode
Color	- Quiet Mode
	White
Mounting Type	Wall-Mount
Noise Level	Low Noise Operation
Warranty	Manufacturer's Warranty as per model & brand



KEY HIGHLIGHTS

- Inverter Technology: Smart compressor adapts to heat load for energy savings and consistent cooling.
- Air Quality Assurance: Anti-bacterial filter and auto-cleaning technology maintain hygiene.
- Silent Operation: Designed for low-noise performance, ideal for lab environments.
- Smart Display & Controls: Control display and sound indicators, with timer and restart features.
- 5-in-1 Convertible Modes: Tailor cooling performance to room load and personal comfort.

LOT 5: Procurement of General Laboratory Machines

5. MZX3-72 Shoe Upper Knitting Machine



GAUGE14 G

Knitting system:	Three system single carriage,
Knitting width:	36inch 52inch 60inch 66inch 72inch,
Knitting speed:	MAX.1.2m/sec,
Knitting function:	Tranfer, Tuck, Miss, Jacquard, Intarsia, Hide or Apparent

SHAPING

Stitch density: Stitch system controlled by stepping motor, 32 section stitch selectable, adjustable scope supported by subdivision technology: 0-650. Control system ; LCD industrial display, can display various parameters, which can be adjustable during operation. Network function; Has network interface, enable remote-monitoring via connecting with network, and ERP system. Power supply single-phase 220V/three-phase 380V, adopt advanced memorizing function at power shock stop.

LOT 5: Procurement of General Laboratory Machines

6. HY-832A DLO Digital Laboratory Oven

PRODUCT OVERVIEW

This Digital Laboratory Oven is a compact, high-performance heating solution designed for drying, curing, and heat treatment in scientific, industrial, and quality control environments. Engineered for reliability and precision, it ensures uniform temperature distribution with tight control, ideal for consistent and repeatable results.

TECHNICAL SPECIFICATIONS

Parameter	Details
Capacity	45 Litres
Volume	1.5 Cubic Feet
Temperature Range	Ambient to 300 °C
Temperature Uniformity	±2.5 °C
Temperature Fluctuation	±1 °C
Temperature Resolution	0.1 °C
Tray Maximum Loading	15 kg per tray
Tray Spacing	6 cm
Door Style	Side-open hinged door with secure latch
Outer Shell Material	Corrosion-resistant Stainless Steel
Chamber Material	Aluminum-coated Mild Steel
Body Finish	Easy-clean, powder-coated exterior



FEATURES

- High Precision Temperature Control: Suitable for sensitive experiments and drying processes
- Excellent Uniformity: Maintains even heating across chamber volume
- Durable Construction: Stainless steel shell resists corrosion and harsh lab conditions
- Optimized Air Circulation: Promotes consistent thermal performance
- User-Friendly Operation: Digital control panel with clear temperature display
- Safety Assured: Over-temperature protection for user and sample safety

APPLICATIONS IDEAL FOR:

- Research laboratories
- Quality control departments
- Electronics and plastic industries
- Textile and material testing
- Drying glassware and instruments

LOT 5: Procurement of General Laboratory Machines

7. HD-878-LWDA Laboratory Water Distillation Apparatus

PRODUCT OVERVIEW

This Laboratory Water Distillation Apparatus is designed to produce high-purity distilled water for a wide range of laboratory and analytical applications. It utilizes high-grade stainless steel construction and electric heating elements to ensure efficient and reliable operation with excellent corrosion and aging resistance.

TECHNICAL SPECIFICATIONS

Parameter	Details
Distilled Water Output	20 Litres per batch / cycle
Cooling Water Consumption Ratio	1:8.5 (Distilled Water : Cooling Water)
Heating Source	Stainless Steel Electro-Thermal Electric Heating Tube
Construction Material	High-Quality Stainless Steel Plate
Corrosion Resistance	Excellent Ideal for long-term usage in harsh laboratory environments
Aging Resistance	High Durable and long-lasting performance

FEATURES

- High Output Capacity: Delivers 20 litres of high-purity distilled water per cycle
- Efficient Cooling System: Maintains optimal condensation efficiency
- Stainless Steel Build: Rust-proof and easy to clean for long-term usability
- Energy-Efficient Heating: Fast heating using stainless steel electric heating tubes
- Safe & Reliable: Designed for consistent operation and minimal maintenance
- Compact Design: Space-saving unit fits easily into standard laboratory setups

APPLICATIONS

- Clinical and diagnostic labs
- Research and development facilities
- Chemistry and biology labs
- Educational institutions
- Industrial quality testing





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