

THE DIGITAL FUTURE OF TEXTILE TESTING



Why ChiuVention

SmarTexLab

Designed in Germany, ChiuVention has developed a series of smart test instruments by combining cutting-edge RFID, visual inspection, and IoT technologies with AI algorithms;

Meanwhile, SmarTexLab, a smart textile lab management system built by ChiuVention under the “lean manufacturing concept” is connected with our smart instruments, thus forms a real smart laboratory with IoT technology.

SmarTexLab and instruments are also connected with factory ERP or laboratory LIMS to achieve a fully digitalized testing and production.

ChiuVention makes textile testing transparent, faster and more accurate!



SmarTexLab
(Android Apps)

What is Important

Our Mission

The digital future of textile testing

Our Vision

To be the global leader in smart textile instruments

Our Values

Customer-centered

Fighter-oriented

Honest and trustworthy

Open and Innovative

30% Faster

Sample information is typed into the system and test requirements are selected, the related QR codes are generated;

The smart cutter sweeps the codes and cuts the sample at once;

The experimenter then takes the sample after receiving the notification, and scans the code and installs the sample in the instrument. Next, the series of instruments automatically start the tests;

When the tests are completed, the sample information, test results and other original records will be all uploaded to the SmarTexLab system and all test items will be summarized to form a report;

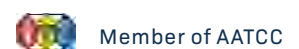
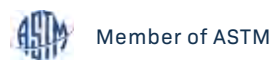
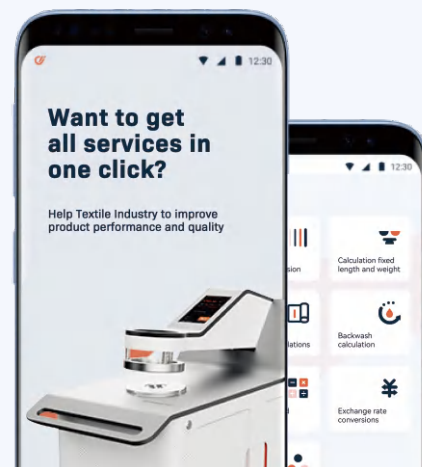
SmarTexLab are connected with ERP or LIMS, etc., so that the relevant parties can view the test reports in real time on their smartphones or computers.

No more manual cutting, recording or calculation, and no waste of waiting and repetitive actions, this system reduces lab testing time by about 30%.

20% More Reliable

The reliable and easy-to-use smart instruments and SmarTexLab system improve test reliability by about 20%.

It is achieved by the following functions: identifying samples by scanning code, cutting and making samples intelligently, as well as selecting the test program automatically, and getting the test results immediately by advanced technologies such as machine vision inspection, AI intelligent algorithm. Less manual operation, less human errors and more reliable test results.



Quality is Our Culture

Strictly meet standards

All data for each instrument meet the standard parameters.

Consistency with international third party laboratories

All test data are comparable to the test results obtained by well-known international third party laboratories.

High repeatability

The same set of samples, the same machine, after multiple tests, the results are consistent.

High reproducibility

The same set of samples, different machines of the same model, after multiple tests, the results are consistent.

Longer service life

For all the machines manufactured by ChiuVention, before mass production, prototypes are made and required to pass the strict Reliability Test, i.e. tested under challenging environments such as high and low temperature, high speed and high load, and etc., to ensure a sufficiently long expected service life.



About ChiuVention

ChiuVention is registered in Europe and the United States, and is designed in Germany. ChiuVention is developed from TESTEX founded in 2010, headquartered in Dongguan, China. We specialize in textile footwear and apparel testing instruments.

In 2020, our brand was upgraded comprehensively to ChiuVention, and realized the global launch of the new brand at the ITMA 2023, Milan, Italy, the world's most influential textile and garment technology exhibition. At ITMA 2023, a series of ChiuVention revolutionary and innovative instruments such as the SmartShrink Shrinkage Rate Tester, the SmartFill Liquid Filling Machine, and our SmartTexLab system gained a great deal of attention from the industry's benchmark brands, such as Adidas and Decathlon, as well as the major academic and standards organizations. ChiuVention has been recognized widely since its launch.

ChiuVention provides smart textile testing instruments and solutions for 42 countries and regions worldwide. We have been serving third party testing organizations such as BV, SGS, Intertek and sports and fashion brands such as NIKE, Adidas, Anta, Decathlon, etc. With customer-centered belief, and the mission of leading the digital future of textile testing, ChiuVention is committed to become a global leader in smart textile instruments.

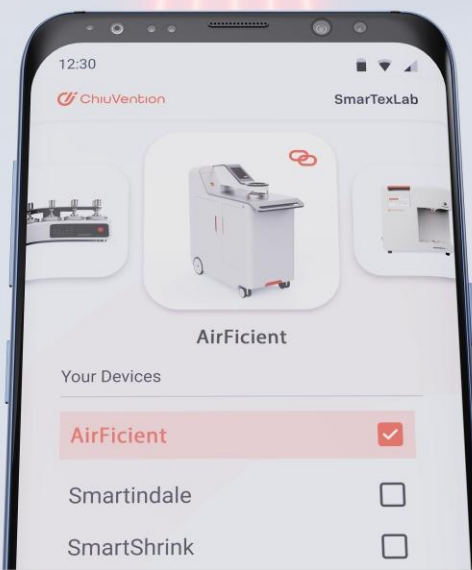
TEST SMART NOW!



Youtube Channel

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SmarTexLab
(Android Apps)

SmarTexLab Textile Testing

VS

Conventional Textile Testing

The test requirements are all collected online and received by the smart cutting machine.

The collection of test requirements

Fill out the test requirements manually, input them into the computer, and then print out some forms and corresponding labels.

The cutting machine automatically cuts the fabric into samples of different sizes and put them into the RFID basket that can identify and track the samples.

Cutting and identification of samples

Several samples were manually cut and labeled separately for differentiation.

By scanning the sample bar code or placing an RFID basket in the induction area, all information are automatically identified and recorded, then the instruments will be automatically set according to the test requirements.

Recording of test elements

You need to manually record the test elements, such as environment, temperature and humidity, test material information, test method, etc., and set the instruments according to the test requirements, start the test.

Start test and just leave, the operator can monitor the test from app, until mobile phone alarms to re-test or stop the tests.

Monitoring of the testing process

The operators have to stay with the instruments to monitor the test status and wait for the ending of tests.

The system automatically calculates the test results, just confirm them.

Calculation of test results

Manually record and calculate the test results.

Only need to confirm the report results and share them to all parties concerned in 1 minute.

Summary of test results and sharing

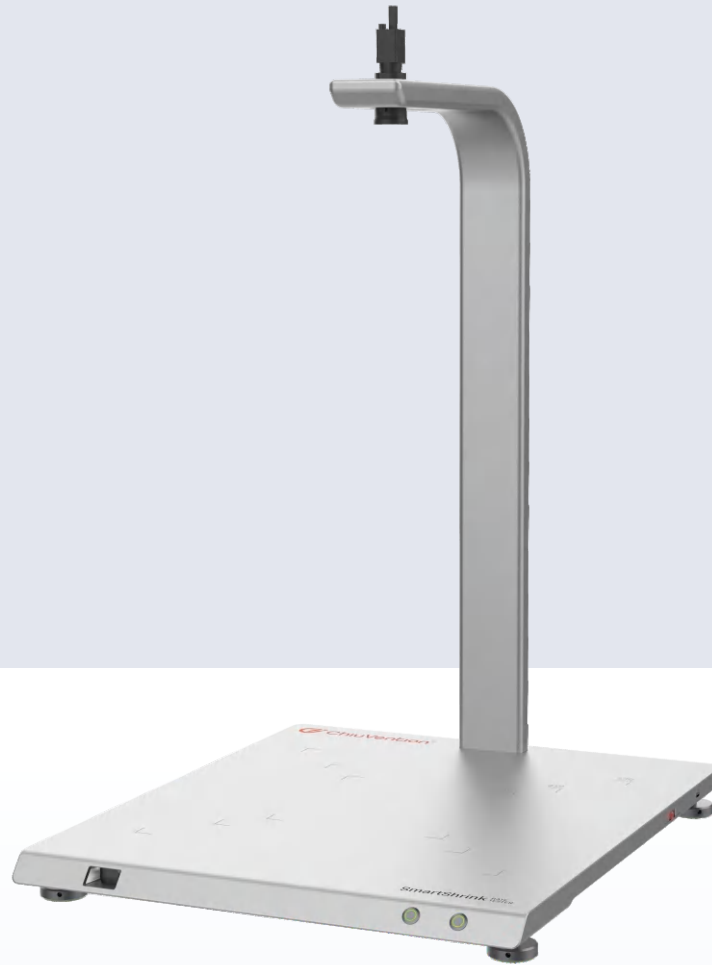
1 person is in charge of grouping a series of test reports and the other needs to input all the info into computer and print out them, then send to all parties concerned.
Time:20 minutes

All the test results and pictures even videos are saved in the computer that eases the big data analysis.

Analysis of big data

The test results are recorded on the papers.
It is very hard to do big data analysis.

What's more, you can get the instrument calibration guide and maintenance service, consumable supply, as well as massive testing knowledge only by one-click on SmarTexLab. Test Smart Now!



SmartShrink Shrinkage Rate Tester

SmartShrink Shrinkage Rate Tester determines multiple shrinkage rate test results in 5 seconds for fabrics after washing, steaming, and dry-cleaning.

SmartShrink takes a picture of a fabric sample by using a camera equipped on the top, automatically measuring the distances between the marked dots, and calculates the test results by the patented vision inspection algorithm of ChiuVention. The test results will be real-time shared with the IoT-connected SmarTexLab app installed on the computer and smartphone.

SmartShrink automatically measures fabric shrinkage and calculates the test results, avoiding manual errors and making the test more accurate and reliable; It automatically saves the test data and sample photos, and can share and send the test results in real-time, making the test more transparent and trustworthy; The whole process of the test has been reduced from 6 minutes to only 5 seconds, making the test more rapid and reducing the cost by more than 90%.

SmartShrink

Shrinkage Rate Tester



Power

220/110V 50/60Hz

Weight

40kg

Dimension

810*690*1170 mm(L*W*H)

The Specification of SmartShrink

Test mode: automatic test

Sample test size: 200*200mm, 250*250mm, 350*350mm, 450*450mm, 460*460mm, 500*500mm, 10*10in. 15*15in. 18*18in.

The sample test size also can be customized.

A computer is required.

Operating system: Windows 10/11

- **The test results are more accurate and reliable.**

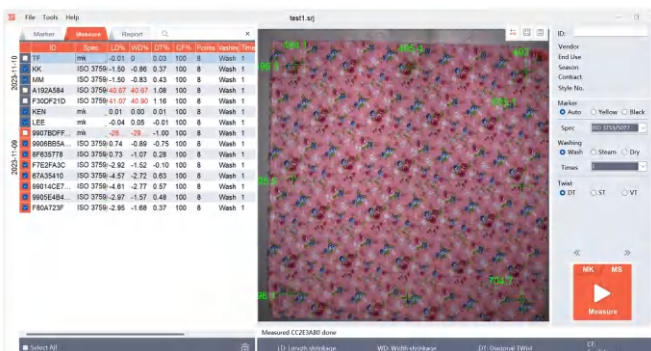
By using SmartShrink, the test sample is photographed with a high-definition camera, and the distances between the marked dots are automatically measured, then shrinkage rate is calculated with a unique algorithm, yielding all test results in real-time accurately.
- **Save \$30,000/year for textile testing labs.**

In the conventional process, for each sample to be tested for shrinkage, it totally takes 6 minutes to finish the work: measuring and recording before/after washing, calculating, typing the data into the computer, printing the report, etc., while SmartShrink can do all the work above in just 5 seconds.
- **Output multiple data at one time, reflecting the quality of fabric more comprehensively and objectively.**

Warp and weft shrinkage, seam twist rate, vertical twist rate, and diagonal twist rate can be output at one time, including credibility rating for the test results. It can evaluate the quality of the fabric more comprehensively.
- **Famous brands are using SmartShrink.**

International brands and authoritative testing institutions such as Anta, Adidas, Texwinca and ITS have widely used SmartShrink.
- **Can be connected to ERP or LIMS system.**

The test results can be directly uploaded to the factory's ERP or laboratory LIMS system. SmartShrink can help you manage shrinkage test data conveniently and efficiently.



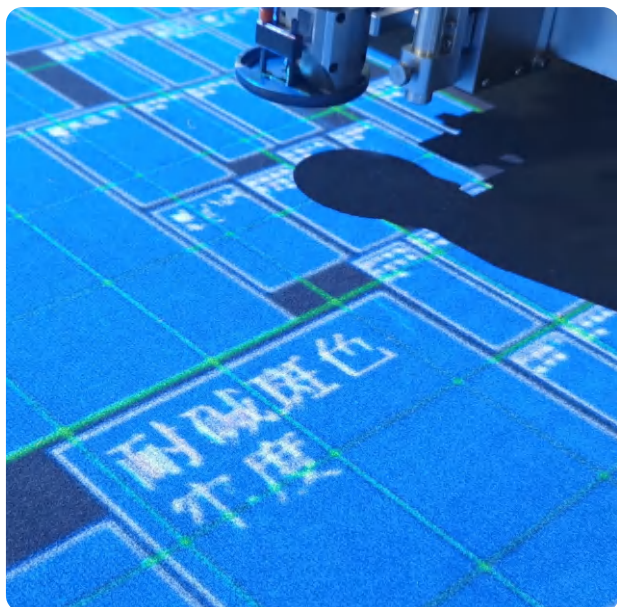


SmartCut Fabric Sample Cutting System

The SmartCut can complete the sampling of fabrics within 3 minutes. It can be connected with the customer's ERP or LIMS system docking through the network port, then automatically gets the test item information from the scanning of the bar code. And then the SmartCut will layout the sample graphics of the items to be tested in accordance with the standard requirements through a unique algorithm. Next step, the sample graphics will be projected on the fabric and the SmartCut starts cutting fabric samples, automatically marking the samples as the the customer's settings. It is suitable for sampling requirements of dozens of tests such as pilling, tearing strength, water repellency, anti-static, tensile strength, color fastness, flammability, etc. It supports various standards such as GB/T, FZ/T, ISO, EN, JIS L, AATCC, ASTM, CAN, AS and so on.

SmartCut

Fabric Sample Cutting System



- **Strictly cuts the samples according to the standards, making sure the test is more reliable.**

It supports decentralized sampling, trapezoidal sampling, full-width sampling, and 45° sampling, and can cut samples according to the rules such as alignment to grid and to edge. So, the reliability of the test is guaranteed from the sampling.

- **More precise cutting and higher sample pass rate.**

The tungsten steel blade of SmartCut is sharp and can be rotated 360°, with a cutting accuracy of 0.1mm, and a round-trip cutting error rate of less than 0.01mm, i.e. cut grams of specimens accurately.

- **Saves 5 laborers per year (about \$420,000) for large-scale labs.**

If you need to cut 100 whole samples per day, the conventional manual cutting requires 3000 minutes, i.e. 6 laborers; while using SmartCut sample cutting system, 100 whole samples need only 0.6 laborers, saving 5 laborers per year for the laboratory.

And SmartCut can also achieve multi-station cutting (cutting different fabrics at the same time); multi-layer cutting (maximum cutting thickness of 7mm, can cut 1-20 layers); shaped cutting (irregular graphics). It can mark samples.

The Specification

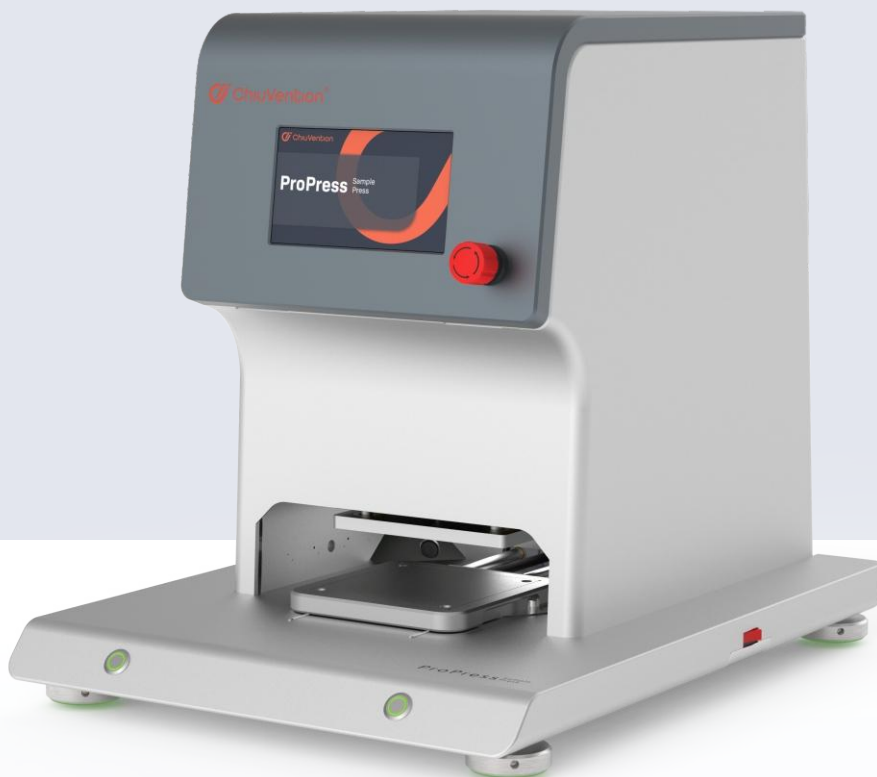
Cutting accuracy:	± 0.1 mm
Repeatability:	± 0.01 mm
Maximum cutting thickness:	7mm
Power supply:	220V/380V 50Hz-60Hz 20A-40A

Fabric fixing method	vacuum adsorption to ensure flatness
Table top wear resistance	it is recommended to replace the table top once a year.
Standard order	smart sample cutting software, smart cutting machine, computer, projector, brush function.
Optional	Inkjet marking function of the software, vibrating cutter head can be added.

Model	Working Area(cm)	Weight(kg)	Power(kw)	Warranty Period
CV517-6060	60*60	400	4.5	1 year
CV517-1410 CV517-1610	140*100/ 160*100	600	4.5	1 year
CV517-1516	150*160	650	4.5	1 year
CV517-1810 CV517-1812	180*100/ 180*120	700	4.5	1 year
CV517-2516	250*160	1000	9.5	1 year
CV517-3020	300*200	1200	9.5	1 year

Applicable test items and standards

Abrasion & Pilling	GB/T4802、ISO12945、 JIS L1076、ASTM D4970
Tearing Strength	GB/T3917、ISO 13937、 JIS L1096、ASTM D751
Water Proof	GB/T4745、ISO 4920、AATCC 22、 ISO 9865、JIS L1092
Antistatic Test	GB/T12703、GB/T 22042、 EN 1149、ISO 6330
Core Suction Height	GB/T21655、JISL1907、ISO6330
Dimensional Stability	GB/T 8629、ISO 6330、JIS L0217、 AATCC 135、AS2001.5.4
Elastic Elongation	FZ/T01062、ASTMD3107、 JIS L1096、EN 14704
Tensile Strength	GB/T3923、ISO 13934、 ASTM D5034、EN 29073-3
Fabric Weight	GB/T4669、ASTM D3776、ISO 3801、 JIS K6772、EN 12127
Abrasion Resistance	GB/T21196.2、ISO 12947、 ASTM D3884、AS 2001.2.28
Peel Strength	FZ/T80007.1、ISO 8096、JIS L1089、 ASTM D2724
Burst Strength	GB/T7742.1、ISO13938-1、 ASTM D3786
Seam slippage	GB/T13772.1、FZ/T20019、 ISO13936、JIS L1096
Anti-hooking	GB/T11047、BS8479、ASTMD3939
Downproof	GB/T12705、GB/T 14272、 EN 12132、ISO 6330
Color fastness to rubbing	GB/T3920、AATCC 8、ISO 105 X12、 ASTM D2054、JIS L0849
Color fastness to sunlight	GB/T8427、AATCC-16(3)、 ISO 105-B02、ASTM D6544
Other color fastness items	GB/T、FZ/T、ISO、EN、JISL、AATCC、 ASTM、CAN、AS
Flammability	GB/T5455、FZ/T01028、ISO 3795、 GB 8410、ASTM D5132



ProPress Sample Press

The ProPress cuts the samples into small pieces (e.g. 3x3 mm) within 8 seconds automatically and it can also cut multiple layers of fabric in a single pass. This machine is servo-driven and runs without air source and oil pressure. It can be placed at the table for its small size.

ProPress is applicable for formaldehyde, pH and other tests of fabrics, yarns, leather, plastics and other flexible materials.

Lay the sample flat on the plate, and press the button with both hands, then the plate will entry and the machine automatically press and cut the samples. When the cutting is finished, the machine automatically activates a strong air cleaning system to blow away any fibers and debris left behind, ensuring that the samples are not mixed with each other.

The operator can observe whether there is any sample residue through the high-definition camera equipped with ProPress from the operation screen, and can manually start the cleaning program again.

In addition, ProPress ensures your safety: start up by two hands, work area equipped with light barrier to prevent accidental injury. Applicable for various cutting sizes such as 3x3mm, 5x5mm, 10x10mm or the dimensions can be customized.

ProPress Sample Press



- More accurate sample preparation, for more reliable test results.**

Traditional manual cutting of samples can easily lead to large differences in sample shape and size, which can cause insufficient dissolution, thus affecting the reliability of the test ; ProPress cuts samples by pressing, which is precise and fast, and the highly consistent samples make the test results of formaldehyde, pH value, etc. more reliable.

- Faster sample preparation, saving more than 80% of time.**

The ProPress presses samples in 8 seconds per operation, compared to at least 60 seconds for manual cutting, making it valuable for large-scale testing labs that prepare large number of test samples every day.

- Ensures the quality of samples throughout the whole process.**

The ProPress is equipped with a self-cleaning system that blows air to clean all kinds of fiber debris generated during the cutting process, and a built-in high-definition camera (2 megapixel, 1920x1080 resolution) used for observing the cleaning and ensures that there is no mixing between samples.



Power

220V 5A /110V 10A 50/60Hz 1000A



Weight

Net weight 100kg
Gross weight 126kg



Dimension

Net size 600*450*530 mm (L*W*H)
Packing size 740*550*740 mm (L*W*H)



The Specification

Machine	1.CV.518.01 CV518 ProPress Sample Press
Press thickness	0.1mm*4mm
Press pressure	5T (adjustable force as 1T, 2T, 3T, 4T, 5T , to improve the service life of the cutter)

Standard accessories (mode and dimensions)

Matting	4.M.011	129 mm*129 mm*6 mm	6pcs
Die	2.Z.CV518.01	5 mm *5 mm (Press area 100mm*100mm)	1pc
Pallet	2.Z.CV518.03	160 mm*160 mm*16 mm	2pcs

Optional accessories (mode and dimensions)

Die	2.Z.CV518.02	3 mm *3 mm (Press area 80mm*80mm)
Hoover	7.XCQ.001	220V 1200A
Hoover	7.XCQ.002	110V 1200A
Other customized dies dimensions limits: max. diameter 113 mm, min. diameter 4 mm.		

Wear parts and consumables

Matting	4.M.011	129 mm*129 mm*6 mm (Forward and reverse sides are available)
Die	2.Z.CV518.01	5 mm *5mm (Press area 100mm*100mm or customized dimensions)

Installation conditions

Equipped with a socket 220V or 110V, compressed air (or not), work surface area of not less than 700mmx1000mm

Applicable Tests and Standards

pH test	ISO 3071 GB/T 7573
Formaldehyde	ISO 14184.1 GB/T 2912.1
Heavy metal	GB/T 17293.1/2/3
Azo	FZ/T 01133 GB/T 17592



Smartindale Martindale Abrasion & Pilling Tester

Smartindale Martindale Abrasion and Pilling Tester is used for fabric abrasion and pilling tests. It generates a Lissajous curve with a digital algorithm, and then drives the friction, achieving accurate running without calibration. You can switch test modes such as the abrasion test to the pilling test with one click without changing the pins.

You can also control and monitor the Smartindale from your smartphone by SmartTexLab app connection, and the test data can be uploaded to ERP or LIMS system, to realize smart testing.

It can test the abrasion and pilling resistance of cotton, linen, silk woven fabrics and other textiles, film materials, knitted fabrics, woolen fabrics, artificial leather, synthetic leather, gloves, labor protection materials, and so on. It is widely applicable to more than 20 international standards such as ISO 12945-2-2020, ISO 12947-2-2016, BS EN 530-2010; ASTM D4970/4970M-22, etc.

Smartindale Martindale Abrasion & Pilling Tester



- The Lissajous curve is calibration-free, making it a more reliable test.**

Smartindale runs by an exclusive and patented digital algorithm that drives dual servo motors and precision slide rails, replacing the traditional mechanical analog drive to generate a perfect Lissajous curve. After more than 10 million times (equal to three years non-stop) of ultra-high intensity friction life test with rubber simulation specimen and double weight, the Lissajous curve is still accurate and perfect, so the test is more reliable.

- Can be connected to ERP or LIMS through an APP, more smart**

Smartindale can be connected to the APP SmartTexLab installed on your smartphone, then you can set the parameters, monitor the test status, etc. After the completion of the test, the sample information, the test process, and the results can be uploaded to ERP or LIMS, to achieve smart testing, more in line with the requirements of the laboratory management system (ISO17025), such as CNAS or ILAC, so that the entire testing process is more convenient, transparent, and efficient.

- One-touch switching between abrasion and pilling testing, for greater efficiency.**

You can switch the test modes (e.g. abrasion to pilling) on the control panel, no need to remove the cover plate and change the pin position.

- User-friendly design**

The flip-up guide plate can be lifted with one hand, which is convenient for loading samples and taking samples; there is a cushioning function when the cover plate falls, which avoids damaging the machine and is safer for the operators.

The Specification of Smartindale

Abrasion test

Max stroke of movement	60.5+/-0.5mm
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Weight of holder and spindle	198+/-2g
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Pilling test

Max stroke of movement	24+/-0.5mm
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Weight of holder and spindle	155+/-1g
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Power

220/110V 50/60Hz



Weight

90kg



Dimension

510*850*300 mm(W*L*H)

Accessories

Fuse tube	2pcs
Foam wool	9 pcs Φ38 mm
Wool felt	18 pcs Φ90 mm, Φ140 mm
Wool abrasive	9 pcs Φ140 mm
Sampling plate	3 pcs Φ38 mm, Φ90 mm, Φ140 mm
Sampler	1 pc for pilling test
Sampler	1 pc for abrasion test
Press	1 pc Φ126mm, 2.5kg
Fixture1	9 sets for pilling test
Fixture 2	9 sets for abrasion test
Weight 1	9 sets 12Kpa
Weight 2	9 sets 9Kpa
Rubber ring	9pcs
Test pen	1pc
Connection shaft	9pcs for pilling test
Connection shaft	9pcs for abrasion test
Stainless steel ring	9pcs 260g

Optional Accessories

EMPA990 rating chart card	1 set	knitted + Woven
SM50 rating chart card	1 set	IWS + ASTM
SM25 abrasion resistant wool cloth	1 pack	1.6 X 5m/pack
Sm26 woven wool felt	1 box	24 pcs/box Φ140mm
Sm26 woven wool felt	1 box	24 pcs/box Φ90 mm
SM28 polyurethane ether foam	1box	250 X 200mm/pc, 25pcs/box

Standards

ISO 12945-2-2020 ISO12947-1-1998 ISO12947-2-2016
 ISO12947-3-1998 ISO12947-4-1998
 GB/T 21196.1-2007 GB/T 21196.2-2007
 GB/T 21196.3-2007 GB/T 21196.4-2007
 GB/T 4802.2-2008 BS EN 530-2010
 ASTM D4970/4970M-22 ASTM D4966-22

Optional Standards

BS EN 388-2016+A1-2018 Protective gloves for mechanical hazards;
 SATRATM31 A/B Abrasion Resistance Test for Leather;
 PUMA; BS EN 16094-2012 Laminated wood flooring,
 Test method for the determination of micro-scratches;
 ISO 20344-2021 Item 6.12 Personal protective equipment,
 Test methods for footwear and boots;
 BS EN 13520-2002 Test methods for footwear, uppers,
 linings and insoles, abrasion resistance;
 ISO 5470-2-2021 Rubber or plastic coated fabrics,
 determination of abrasion resistance



Unidale Martindale Abrasion & Pilling Tester

Unidale Martindale & Abrasion Pilling Tester is stable and reliable, and it is a smart testing instrument, which can be operated and monitored remotely from the smartphone through IoT technology. It greatly improves working efficiency. At the same time, Unidale has a variety of running trajectories and stations and speed options to meet ISO 12945-2-2020, ISO12947-2-2016, GB/T 21196.1-2007, GB/T 4802.2-2008, BS EN530-2010, ASTM D4970/4970M-22, ASTM D4966-22 and other test standards.

The butterfly-shaped guide plate is space-saving and lighter, convenient to observe the test status; With a precision appearance design, and an aluminum alloy hard oxidation surface, this Martindale abrasion & pilling tester is durable. It can be used to determine the abrasion and pilling resistance of cotton, linen, silk woven fabrics, and other textiles, as well as membrane materials, knitted fabrics, woolen fabrics, artificial leather, synthetic leather, gloves, labor protection materials, and so on.

Unidale

Martindale Abrasion & Pilling Tester



Smart instrument

It can be connected through Wi-Fi with SmarTexLab App installed on the smartphones, then you can set parameters, monitor the test status, and receive equipment warning and replenishment reminders, etc., and share the test with one click, improving the work efficiency.

Stable running, reliable test results

The fixture rotates flexibly and the grinding table and specimen fixture is highly parallel. The machine and the surface of the grinding table have a very low vibration (less than 0.05mm), so those are more conducive to achieving reliable test results.

3 kinds of running trajectories, 3 kinds of test stations, and 3 kinds of speeds, to meet a variety of requirements.

It is equipped with 3 kinds of trajectories, one is straight line trajectory, the other two are Lissajous curve, 24mmx24mm (pilling test), 60.5mmx60.5mm (abrasion test), and you have a wide selection of test stations: 9, 6, 4 stations, and 3 speeds, slow (24rpm), standard(47.5rpm), and fast (75rpm), which can be adapted to a wide range of test methods and standards.

Light design, easy to use

Unique butterfly-shaped guide plate, lightweight and space-saving, so it is easy for you to change accessories and observe the test status.

In addition, the machine is durable with precise design and aluminum alloy hard oxidation surface; the trapezoidal chassis is more stable, seven-inch color touch screen is easy to use.

The Specification of Unidale

Abrasion test	
Max stroke of movement	60.5+/-0.5mm
Weight of holder and spindle	198+/-2g
Pilling test	
Max stroke of movement	24+/-0.5mm
Weight of holder and spindle	155+/-1g



Power

220/110V 50/60Hz



Weight

9 work-station type 90kg(net) 147kg(packed)
4-6 work-station type 75kg(net) 110kg(packed)



Dimension

9 work-station type
Machine 850*600*340mm(L*W*H)
Machine+Accessories 990*840*770mm(L*W*H)
4-6 work-station type
Machine 710*530*340mm(L*W*H)
Machine+Accessories 840*720*640mm(L*W*H)
(The machine is 9 work-station type, 4-6 type appearances are different)

Accessories

(Note: 4-6-9, 8-12-18 refers to the number of accessories for the 4-6-9 work station type separately.)

Fuse tube	2pcs
Foam wool	4-6-9 pcs Φ38 mm
Wool felt	8-12-18 pcs Φ90 mm, Φ140 mm
Wool abrasive	4-6-9 pcs Φ140 mm
Sampling plate	3 pcs Φ38 mm, Φ90 mm, Φ140 mm
Sampler	1 pc for pilling test
Sampler	1 pc for abrasion test
Press	1 pc Φ126mm, 2.5kg
Fixture1	4-6-9 sets for pilling test
Fixture 2	4-6-9 sets for abrasion test
Weight 1	4-6-9 sets 12Kpa
Weight 2	4-6-9 sets 9Kpa
Rubber ring	4-6-9 pcs
Test pen	1pc
Connection shaft	4-6-9 pcs for pilling test
Connection shaft	4-6-9 pcs for abrasion test
Stainless steel ring	4-6-9 pcs 260g

Optional Accessories

EMPA990 rating chart card	1 set	knitted + Woven
SM50 rating chart card	1 set	IWS + ASTM
SM25 abrasion resistant wool cloth	1 pack	1.6 X 5m/pack
Sm26 woven wool felt	1 box	24 pcs/box Φ140mm
Sm26 woven wool felt	1 box	24 pcs/box Φ90 mm
SM28 polyurethane ether foam	1box	250 X 200mm/pc, 25pcs/box

Standards

ISO 12945-2-2020 ISO12947-1-1998 ISO12947-2-2016
ISO12947-3-1998 ISO12947-4-1998
GB/T 21196.1-2007 GB/T 21196.2-2007
GB/T 21196.3-2007 GB/T 21196.4-2007
GB/T 4802.2-2008 BS EN 530-2010
ASTM D4970/4970M-22 ASTM D4966-22

Optional Standards

BS EN 388-2016+A1-2018 Protective gloves for mechanical hazards;
SATRATM31 A/B Abrasion Resistance Test for Leather;
PUMA; BS EN 16094-2012 Laminated wood flooring,
Test method for the determination of micro-scratches;
ISO 20344-2021 Item 6.12 Personal protective equipment,
Test methods for footwear and boots;
BS EN 13520-2002 Test methods for footwear, uppers,
linings and insoles, abrasion resistance;
ISO 5470-2-2021 Rubber or plastic coated fabrics,
determination of abrasion resistance



AirFicient Air Permeability Tester

The AirFicient Air Permeability Tester allows you to quickly get reliable air permeability test results, and it is a smart instrument so you can set parameters, monitor the test status, etc., from your smartphone, which greatly improves work efficiency.

It is suitable for a variety of textiles including technical fabrics, non-woven fabrics, and other breathable products such as sponges paper, and other materials for air permeability testing. Applicable to GB/T5453, ISO 9237, ISO 9073:15, JIS L1096 Item 8.26 Method C, BS 3424-16, BS 6F 100 3.1, NWSP 070.1.RO(15), GB/T 24218.15, etc.

The principle is that the air passes vertically through the fabric, forming a certain pressure difference between the front and back sides of the fabric, measuring the amount of air flowing through the fabric under a certain pressure difference, thus obtaining the air permeability value.

AirFicient

Air Permeability Tester



Power
220/110V 50/60Hz



Weight
125kg



Dimension
970*400*970 mm(L*W*H)

The Specification of AirFicient

Measurement units:	mm/s, m/s, l/m ² /s, ft ³ /min/ft ² , cfm cm ³ /s/cm ² , l/s/cm ² , l/m ² /min 1/dm ² /min, l/min, m ³ /min, dm ³ /s m ³ /s/m ² , m ³ /min/m ² , m ³ /h/m ² , ft ³ /s/ft ²
Test Mode	Automatic
Test head	20 cm ² (standard)
Test pressure	10 ~ 2,500 Pa
Air velocity	0.6 ~ 10,000 mm/s (20 cm ²)
Measurable sample thickness range	0 ~ 10 mm (other thicknesses and fixtures can be customized)
Testing Accuracy	< +/-2%
Optional test heads	5 cm ² , 25 cm ² , 38 cm ² , 50 cm ² , 100 cm ²

Tests are easy and fast.

The AirFicient is easy to operate, you can select the test standards and measurement units from the operation screen. And the instrument can automatically recognize the different ranges of the test fixture head. You can start the test and get the result directly.

More reliable test results

Innovative test model, the range conversion components are maintenance-free, no loss, bringing high repeatability and reliability to test results.
High-quality core components, such as pressure sensors from famous brands, further ensure the accuracy of the test results.

Smart instrument

Can be connected through Wi-Fi with the SmarTexLab App installed in the smartphones, you can set parameters, monitor the test status, receive equipment warning reminders, etc., and share test results with the quality control department or brand buyers.

Standard

GB/T5453 ISO 9237
ISO 9073:15 JIS L1096 Item8.26 Method C
BS 3424-16 BS 6F 100 3.13
NWSP 070.1.RO(15) GB/T 24218.15

Optional standard

ASTM D737



HydroBurst Bursting Strength Tester

The HydroBurst Bursting Strength Tester utilizes hydraulic bursting (diaphragm method) to determine the bursting strength and expansion of knitted fabric, woven fabric, non-woven fabric, laminated fabric, elastic woven fabric, paper and other materials when subjected to stress in both warp and weft directions, as well as in all other directions, to get the materials resistance to bursting.

HydroBurst

Bursting Strength Tester



Power

220/110V 50/60Hz

Weight

130kg

Dimension

830*500*660 mm(L*W*H)

- **Smart instrument**
Can be connected through Wi-Fi with SmarTexLab App installed in the smart phones, set parameters, monitor the test status, receive equipment warning reminders, replenishment reminders, etc., and share test results with one click.
- **Smooth operation, precise and durable**
The hydraulic system adopts full servo control and precise screw drive, providing smooth operation, precise and durable transmission, and low noise.
- **High-precision testing**
The pressure measurement part is equipped with a high-precision pressure sensor, with accuracy up to 0.2, which means the deviation is 0.2% of the maximum range.
- **Longer service life of sensors**
HydroBurst is equipped with the Panasonic laser displacement sensors which have no rod and are easy to replace testing cups, thus providing sensors with better protection and reducing the risk of damage compared to traditional rod-type sensors.
- **Smart identification system for testing cups**
When changing the testing cup, the system can automatically identify the current testing cup model and switch the testing parameters automatically, which also greatly improves work efficiency.

Specifications

Model No. 1.CV.142.01 CV142 HydroBurst Bursting Strength Tester

Testing mode fixed-speed bursting, fixed-pressure bursting, fixed-expansion bursting, and fixed-time bursting.

Measurement range 0-10 MPa ±1%(with test cup ≤ 10cm²)
 0-3 MPa ±1%(with test cup = 50cm²)
 0-1 MPa ±1%(with test cup = 100cm²)

Testing rate 50-500 ml/min

Hydraulic medium 7.HY.004 glycerin 500ml/1pc

Test cup mode, Fixture mode and related dimensions

Test Cup 1(Standard) 2.Z.CV.142.01 7.3cm²(Dia.30.5mm±0.2mm)
 Lower fixture base 1(Standard) 2.Z.CV.142.11 7.3cm²(Dia.30.5mm±0.2mm)

Test Cup 2(Optional) 2.Z.CV.142.02 7.55cm²(Dia.31mm±0.2mm)
 Lower fixture base 2(Optional) 2.Z.CV.142.12 7.55cm²(Dia.31mm±0.2mm)

Test Cup 4(Optional) 2.Z.CV.142.04 10cm² (Dia.35.7mm±0.2mm)
 Lower fixture base 4(Optional) 2.Z.CV.142.14 10cm² (Dia.35.7mm±0.2mm)

Test Cup 5(Optional) 2.Z.CV.142.05 50cm² (Dia.79.8mm±0.2mm)
 Lower fixture base 5(Optional) 2.Z.CV.142.15 50cm² (Dia.79.8mm±0.2mm)

Test Cup 6(Optional) 2.Z.CV.142.06 100cm² (Dia.113mm±0.2mm)
 Lower fixture base 6(Optional) 2.Z.CV.142.16 100cm² (Dia.113mm±0.2mm)

Test diaphragm(optional) 4.M.020 Dia.148mm*1.6mm(10pcs/box)
 Maximum expansion height 65mm±1mm
 (with test cup of 50cm² also can be used for 70mm±1mm)
 Operating environment temperature 20°C±5°C, humidity:50%~70%.

Installation conditions air supply pressure of 5~8 bar
 (ensure that the air is clean and dry)

Specification	Standard	FZ/T01030-2016MethodB	GB/T7742.1-2005	ISO13938-1-2019	ASTMD3786/3786M-18(2023)	EN 12332-2-2002
Test Fixture	7.3cm ² (φ 30.5mm)	✓	✓	✓	✓	-
	7.55cm ² (φ 31±0.75mm)	-	-	-	✓	-
	10cm ² (φ 35.7±0.5mm)	-	✓	✓	-	✓
	50cm ² (φ 79.8mm)	-	✓	✓	-	-
	100cm ² (φ 113±1mm)	-	✓	✓	-	✓



ElmenGuide Elmendorf Tear Tester

The ElmenGuide, also known as the Pendulum Tearing Tester, does the test by using a pendulum tearing method. The pendulum falls from a certain starting height, converts all potential energy into kinetic energy, cuts a slit on the fabric, and then measures the force required for the fabric to tear to a specified length, which can be used to calculate the fabric's tear resistance.

ElmenGuide

Elmendorf Tear Tester



- **The innovative balance pendulum plate design, achieves a higher level of testing accuracy**

The pendulum arm of ElmenGuide is specially designed, and the center of gravity of the entire pendulum arm coincides with the rotation center when no weights are attached. This results in higher accuracy and reliability of the equipment.

- **Smart instrument**

Can be connected through Wi-Fi with SmarTexLab App installed in the smart phones, set parameters, monitor the test status, receive equipment warning reminders, replenishment reminders, etc., and share test results with one click.

- **Automatic recognition of weights**

The machine can automatically recognize the weight attached and adjust to the corresponding range.

- **Humanized design, for more safety**

The double-button switch design prevents accidents and is more user-friendly for testers.

- **Precise manufacturing and stable operation**

The fixture rotates flexibly and the loss of empty pendulum is minimal. Multiple measurement units (N, cN, gf, lbf) to choose from. In addition, ElmenGuide has a precise appearance design, with an aluminum alloy hard oxidation surface that is sleek, durable, and easy to clean. The trapezoidal chassis is more stable, and the seven-inch color touch screen is simple and easy to use.



Power
220/110V 50/60Hz



Weight
70kg



Dimension
580*420*600 mm(D*W*H)



Specifications

Load range	8N, 16N, 32N, 64N, 128N
Testing accuracy	≤±0.2%F-S
Tear length	43mm
Automatic incision length	20±0.2mm
Sample size	100×75mm

Accessories

Fuse	2 pcs
Sample cutter	1 pc, 100mm*75mm
Test weight A	1 pc, 8N
Test weight B	1 pc, 16N
Test weight C	1 pc, 32N
Test weight D	1 pc, 64N
Test weight E	2 pcs, 128N
Calibration weight a	1 pc, 8C
Calibration weight b	1 pc, 16C
Calibration weight c	1 pc, 32C
Calibration weight d	1 pc, 64C
Calibration weight e	1 pc, 128C

Standard

ASTM D1424 BS ISO 13937-1 GB/T 3917.1 ISO 4674-2



SmartDry Drying Rate Tester

SmartDry Dry Rate Tester is equipped with high-precision temperature sensors, wind speed sensors and precision water dripping devices, etc., which can quickly simulate the process of human sweating and quickly determine the drying rate of textiles. The specially designed parallel cross-flow fan makes the wind speed more uniform and smooth, which can restore the actual evaporation process and make the test results more reliable. SmartDry is a smart instrument, which can be connected to the SmartTexLab app installed in the smartphone through WIFI, so that the parameters can be set remotely and the test process can be monitored, which greatly improves the working efficiency. SmartDry is applicable to the AATCC 201 standard.

A test sample is placed on top of a heating plate at a constant temperature of 37°C (99°F), and a certain amount of water rises from the bottom of the instrument to the center of the plate and saturates the sample. An anemometer inside the instrument dries the sample. An infrared temperature sensor measures the change in temperature of the sample to determine if the drying is finished, then the drying speed is determined by the test drying time.

SmartDry

Drying Rate Tester



Smart instrument

This drying rate tester can be networked with smartphone, so you can set parameters and monitor test status remotely, also directly get test results and equipment warning alerts, etc.; Besides, you can share the test results with others.

Efficient and convenient, and more reliable test

With high precision temperature sensor, wind speed sensor and precision drip device, you can complete the test of drying rate quickly in 10 minutes.

The specially designed parallel cross-flow fan makes the wind speed more uniform and smooth, which can restore the actual evaporation process and make the test results more reliable.

Simple and easy to use

The whole test process will be displayed on the screen and present it as a clear data curve.

Precise appearance design, aluminum alloy hard oxidation surface, durable and easy to clean; seven-inch color touch screen is easy to use.



Power

220/110V 50/60Hz



Weight

20kg



Dimension

400*590*180 mm(D*W*H)

Specifications

Fan	can produce airflow of 0.5-3.5m/s ±0.1m/s
Heater plate	305mm x 305mm± 0.5m
Soft heating plate	305mm x 305mm± 0.5m
Heat-insulating cork board	305mm x 305mm± 0.5m
Metal pressure bar	150mm x 40mmx2mm±1mm
The Heating temperature	25-40°C±0.5°C (with overheat protection)
Infrared temperature sensor	15-50°C±0.1°C
Drip accuracy	0.05-1.0ml±0.003ml 1.0-4.5ml±0.01ml

Accessories

Fuse	2pcs
Sampling plate	1 pc 150mm*150mm
Water bottle	1 pc 60mL

Standard

AATCC 201



SmartFill Liquid Filling Machine

The SmartFill is a matching device of washing color fastness tester, which can greatly improve the accuracy and efficiency of the test.

It is equipped with a weighing balance. After weighing the sample, it automatically prepares and heats the soap solution according to the set bath ratio, and outputs the soap solution at a constant temperature, also outputs the set number of steel balls into the test cup.

The SmartFill makes sample preparation more accurate and efficient, and it enhances economic efficiency by allowing wash color fastness testing to be done immediately without waiting.

The SmartFill can also be connected to the SmartTexLab App installed in the smartphone via WIFI, allowing the operator to perform a series of operations on the phone, such as setting the bath ratio, and temperature, and making appointments for replenishment of the soap and heating, etc.

SmartFill Liquid Filling Machine



The Specification of SmartFill

Balance weighing limit	600g, accuracy $\pm 0.01g$
Soap tank	working volume 6500ml (Soap can be refilled automatically)
Single pumping volume of soap	2.5~1000ml,
Liquid output accuracy	1ml $\pm 5\%$
Soap pumping speed	$\leq 28ml / s$ (With steel balls)
Temperature control range	0~65°C, precision $\pm 1^\circ C$



Power

220/110V 50/60Hz



Weight

45kg



Dimension

500*500*520 mm(L*W*H)

More accurate testing

The high precision balance weighs the sample, and the soap dosage is automatically dispensed strictly according to the bath ratio, accurate to 1ml, together with the precise temperature control and steel ball counting, it makes the whole sample preparation more accurate, thus making the test of washing color fastness more reliable.

Testing is more efficient, saving nearly 30% of individual labor costs each year.

By choosing SmartFill, for 1 wash color fastness tester with 12 test cups, each test preparation can save 10 minutes, according to 200 samples per day, or save 30% of individual labor costs for enterprises in a year.

Smart instrument

Can be connected through Wi-Fi with the SmarTexLab App installed in smartphones, then you can set parameters, monitor the test status, receive equipment warning reminders, replenishment reminders, etc.

Well-known brands are using.

Anta supply chain chose SmartFill, which more quickly and efficiently got the garment color fastness data so that corporate brand and quality management became more scientific.





WashTrue

Washing Color Fastness Tester

The WashTrue Washing Color Fastness Tester adopts smart temperature control algorithm to ensure that the washing color fastness test meets the test standards and the results are reliable. It is applicable to standards such as ISO 105 C06:2010, AATCC61-2013e3, GB/T 12490-2014, M&S C4A, AATCC190-2010e2 (2016) e2, NEXT TM 02, etc.

A series of testing operations can be completed on the touch screen, such as selecting standards, parameters, time, and temperature settings, adding water, draining water, etc., it is smart and efficient, and the buzzer alarms automatically when the test is completed. The WashTrue also has multiple safety designs, and can run long time with low noise.

WashTrue

Washing Color Fastness Tester



Smart, Easy to use and Efficient

The smart screen interface allows direct access to a variety of operations: selection of test standards, customization of test parameters, temperature calibration, selection of temperature increase rate, setting of time, heating temperature, etc.

Precise temperature control, more reliable testing

Smart temperature control algorithm achieves accurate and effective test water temperature control.

Humanized design, durable

Multiple safety protection design, the test rotating frame is equipped with an anti-jamming function to protect the instrument.

The heating is achieved by solid state relay controlled electric, bringing more stable temperature and longer service life.

The water tank is made of SUS304 material, also durable.



Power

AC/220V/3N/50/60Hz 40A

AC/380V/3N/50/60Hz 23A



Weight

150kg



Dimension

860*720*1060 mm(W*D*H)

The Specification

Temperature setting range:	Normal temperature (>0°C)~ 95°C
Heating rate:	1.5±0.5°C/min
Temperature accuracy:	± 2°C
Speed:	40 ± 2 r/min
Distance from the bottom of the cup to the rotary axis:	45±10 mm

Standard Accessories

Test steel cup	
550±50mL or 1200±50mL	12 pcs
Stainless steel ball	
Φ6±0.5mm	200 pcs
Fuse ,380V 32A	4pcs
Inlet pipe	1pc
Drain pipe	1pc
Tape	1pc
Screwdriver	1pc
Throat hoop	1pc
Sampling plate	
40 x 100 mm	
50 x 100 mm	
50 x 150 mm	3pcs
Rubber gloves	1pc
ISO sealing or AATCC sealing	12 pcs
measuring cup 100ml	1pc

Optional Accessories

Test steel cup,550±50mL,	1pc
Test steel cup,1200±50mL,	1pc
Stainless steel ball Φ6±0.5mm	1pc
Stainless steel sheet Φ30±2mm thickness 3±0.5mm	1pc
ISO color change gray card	1pc
ISO color change gray card	1pc
AATCC color change gray card	1pc
DW Multi-Fiber Cloth 50m/box	1pc
AATCC No.10 Multi-Fiber Cloth 25m/roll:	1pc

Standard

ISO 105 C06: 2010 AATCC61-2013e3 GB/T 12490-2014
 ISO105-C08-2010 GB/T 29255-2012 ISO105-C09-2010/amd.1:2003
 GB /T 23343-2009 ISO 105 C10: 2006
 GB /T 3921-2008 ISO105-E03:2010 ISO105-E12:2010
 M&S C4A AATCC190-2010e2(2016)e2 NEXT TM 02

Optional Standard

ISO105-D01: 2010
 GB/T 5711-2015 AATCC132-2004e3



SmartPull Tensile Tester

SmartPull Tensile Tester is AC servo-driven and equipped with ball screws to provide stable pulling force and achieve higher testing accuracy. The software of the tester is compatible and powerful by outputting comprehensive test indexes, such as displacement, maximum force, elongation, stress, etc.; and there are various safety designs to protect the instrument and the operator's safety. It is a tensile machine specially built for textiles, leather, footwear, etc. It can do tension, compression, bending, tearing, shearing, peeling and top breaking tests. It is applicable to many international standards, such as ISO 9073-3, ISO13934-1/2, ASTM D5034, ASTM D5035, ISO 3377-2, ISO 13937-3, FZ/T 01030, GB/T 19976 and so on.

SmartPull Tensile Tester



- **Higher testing accuracy**
AC servo drive and ball screw achieve stable and constant pulling force, with force accuracy within 1%, ensuring the reliability and repeatability of test results.
- **Safety guarantee for the whole testing process**
Equipped with an intelligent and active displacement and torque alarm system, overload and emergency stop device, and up and down travel limiting device, SmartPull always keeps the testing process safe and stable.
- **Powerful software**
The test software can be applied to different languages and can present the displacement, maximum force, elongation, stress, maximum stress, bending stress, speed, and other test results. That is, getting more comprehensive test indexes.
- **Applicable up to a series of standards**
Such as ISO 3377-2, ISO 13934-1/2, ISO 13937-2/3, ISO 20932-1, ASTM D5034, ASTM D5035, ASTM D5587, GB/T3917.2, FZ/T 01030, ISO 9073-4, ISO13934-1/2, ISO 9073-3, ISO 13937-2/3, ISO 4674-1, GB/T 3917.4, GB/T 3923.1, ISO 2062, ASTM D6797, GB/T 19976.
- **Easy operation**
Multi-functional pneumatic gripper, just replace the clips to complete different tests, easy and quick to replace. Tensile tests and top breaking tests do not need to replace the sensor.
- **Unique design**
SmartPull Tensile Tester has a unique appearance design combined with a sense of technology, scratch-resistant surface, and it is durable.
- **User-friendly**
Side cutting design, more user-friendly.



Power

220/110V 50/60Hz



Weight

90kg



Dimension

630*460*1470 mm(D*W*H)

The Specification of SmartPull

Testing capacity	250kg,(500kg is optional and the appearance will change)
Test level	class1
Max Travel	800mm (without fixture)
Travel accuracy	≤1%
Travel speed	1mm/min ~500mm/min
Speed accuracy	≤1%
Test force range	0.2% ~ 100%FS
Force accuracy	≤1%

Software configuration (standard)

A version of the test system, with a single-step test

Software configuration (optional)

The C version of the test system can achieve a multi-step test

Fixture and standards

Version A :

ISO 9073-3,ISO 13934-1,ISO 13934-2,ASTM D5034, ASTM D5035,GB/T 3923.1, GB/T 3923.2 GB/T13773.1,GB/T13773.2,GB/T 24218.3, ISO 13937-2(sample with 50mm wide), ISO13937-3, GB/T 3917.2(sample with 50mm wide), GB/T 3917.5 (The standards above are matched with: clamps by 25x25 mm, 25x50 mm, 25x75 mm)

Optional fixture and standards

Version A :

ISO 9073-4,GB/T 3917.3 (clamps by 25x100 mm) ASTM D5587 (clamps by 50x75 mm) ISO 13937-4,ISO 4674-1, GB/T 3917.4 (clamps by 25x200 mm) Leather tearing fixture: ISO 3377-2

Top breaking fixture: ASTM D6797 FZ/T 01030 GB/T 19976

Yarn fixture: ISO 2062

Version C: ISO 13936-2, ASTM D4964 (U type fixture)

VersionC+: ASTM D434 ASTM D1683 ISO 13936-1

(The standards above need to be programmed according to the test requirements provided by customers.)

ISO 20932-1(with linear clamps, or choose other fixtures and replace the clamps)

Computer Configuration of SmartPull

CPU for the Intel Celeron (Celeron) 2GHz or more CPU

Memory at least 512MB, more than 1GB is better

Hard disk space of more than 2GB

Display resolution of 1024 × 768 or more.

Printer compatible with the operating system (if output reports are required)

The applicable operating system for Microsoft's Windows XP, Windows 7, Windows 8, Windows 10

If you need to output the report in Word and Excel format, you should install Microsoft's Microsoft Office 2003, 2007, and 2010 versions of the software.



SmartPull Tensile Tester

SmartPull Tensile Tester is AC servo-driven and equipped with ball screws to provide stable pulling force and achieve higher testing accuracy. The software of the tester is compatible and powerful by outputting comprehensive test indexes, such as displacement, maximum force, elongation, stress, etc.; and there are various safety designs to protect the instrument and guarantee the operator's safety. It is a tensile machine specially designed for textiles, leather, footwear, etc. It can do tension, compression, bending, tearing, shearing, peeling, and top-breaking tests. It is applicable to many international standards, such as ISO 9073-3, ISO13934-1/2, ASTM D5034, ASTM D5035, ISO 3377-2, ISO 13937-3, FZ/T 01030, GB/T 19976 and so on.

SmartPull Tensile Tester



Higher testing accuracy

AC servo drive and ball screw achieve stable and constant pulling force, with force accuracy within 1%, ensuring the reliability and repeatability of test results.

Powerful software

The test software can be applied to different languages and can present the displacement, maximum force, elongation, stress, maximum stress, bending stress, speed, and other test results. That is, getting more comprehensive test indexes.

Safety guarantee for the whole testing process

Equipped with an intelligent and active displacement and torque alarm system, overload and emergency stop device, and up and down travel limiting device, SmartPull always keeps the testing process safe and stable.

It can be customized to meet diversified needs.

S-type load cell for pulling force of 5KN-10KN can be customized to realize more testing functions, and the testing software also can be customized to realize automatic repeated testing.

Lightweight design

The SmartPull is 100 kg lighter than the initial generation, making it easier to handle and operate.



Power

220/110V 50/60Hz



Weight

160kg



Dimension

830*600*1730 mm(D*W*H)

The Specification of SmartPull

Testing capacity	1000 kg
Test level	class1
Max Travel	900mm (without fixture)
Travel accuracy	≤1%
Travel speed	1mm/min ~500mm/min
Speed accuracy	≤1%
Test force range	0.5% ~ 100%FS
Test force value accuracy	±1%
Range of constant rate control	0.5%~100FS

Software configuration (standard)

A version of the test system, with a single-step test

Software configuration (optional)

The C version of the test system can achieve a multi-step test

Fixture and standards

Version A :

ISO 9073-3,ISO 13934-1,ISO 13934-2,ASTM D5034, ASTM D5035,GB/T 3923.1, GB/T 3923.2 GB/T13773.1,GB/T13773.2,GB/T 24218.3, ISO 13937-2(sample with 50mm wide), ISO13937-3, GB/T 3917.2(sample with 50mm wide), GB/T 3917.5 (The standards above are matched with: clamps by 25x25 mm, 25x50 mm, 25x75 mm)

Optional fixture and standards

Version A :

ISO 9073-4,GB/T 3917.3 (clamps by 25x100 mm) ASTM D5587 (clamps by 50x75 mm) ISO 13937-4,ISO 4674-1, GB/T 3917.4 (clamps by 25x200 mm) Leather tearing fixture: ISO 3377-2

Top breaking fixture: ASTM D6797 FZ/T 01030 GB/T 19976

Yarn fixture: ISO 2062

Version C: ISO 13936-2, ASTM D4964 (U type fixture)

VersionC+: ASTM D434 ASTM D1683 ISO 13936-1

(The standards above need to be programmed according to the test requirements provided by customers.)

ISO 20932-1(with linear clamps, or choose other fixtures and replace the clamps)

Computer Configuration of SmartPull

CPU for the Intel Celeron (Celeron) 2GHz or more CPU

Memory at least 512MB, more than 1GB is better

Hard disk space of more than 2GB

Display resolution of 1024 × 768 or more.

Printer compatible with the operating system (if output reports are required)

The applicable operating system for Microsoft's Windows XP, Windows 7, Windows 8, Windows 10

If you need to output the report in Word and Excel format, you should install Microsoft's Microsoft Office 2003, 2007, and 2010 versions of the software.



AtmoExplorer Temperature & Humidity Chamber

The AtmoExplorer is used for testing the performance of various materials under different environmental conditions. It is suitable for testing the heat resistance, cold resistance, dry resistance, wet resistance, and other properties of materials. The testing chamber is applicable for quality testing of products, such as electronics, electrical appliances, mobile phones, communication devices, instruments, vehicles, plastic products, metals, food, chemicals, construction materials, medical equipments, and aerospace products.

AtmoExplorer

Temperature & Humidity Chamber



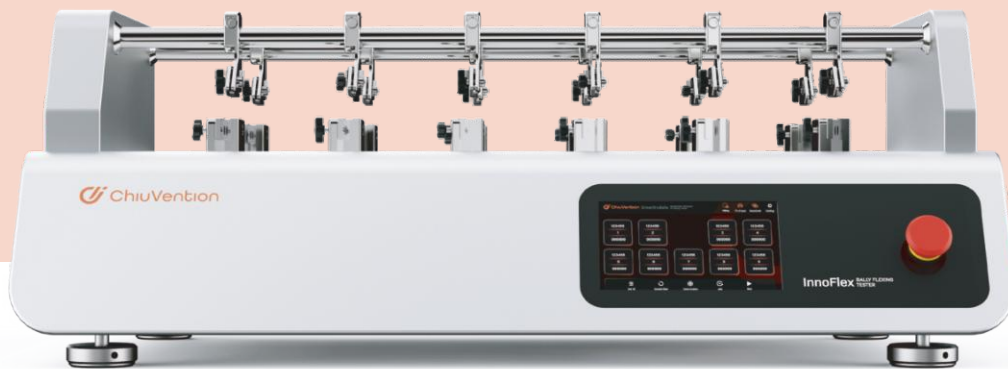
- Wide range of applications**
 It can simulate the environment of high temperature, low temperature, high humidity, and low humidity, and is suitable for testing requirements in various fields and industries such as electronics, materials research, medicine, automobiles, food, etc.
- Excellent performance on control precision and uniformity of temperature and humidity**
 Temperature and humidity control precision: $\pm 0.5^{\circ}\text{C}$; $\pm 3\%\text{RH}$
 Temperature and humidity uniformity: $\pm 2^{\circ}\text{C}$; $\pm 5.0\%\text{RH}$
- Achieve heating and cooling quickly**
 When unloaded, the AtmoExplorer can achieve heating from room temperature to 100°C within 30 minutes. It can also achieve cooling from room temperature to -20°C within 60 minutes.
- Intuitive and practical screen, easy to operate**
 AtmoExplorer has a 7-inch large touch screen that displays information in both Chinese and English. The set values (SV) and perform values (PV) of temperature and humidity are displayed directly, as well as the currently executing program number, segment information, remaining time, and number of cycles.
- Stable operation, originated from high-quality insulation materials and humidifiers**
 The heating element is made of spring-type nickel-chromium wire, and the humidifier is a UL-shaped humidifier in the form of stainless steel electric steam generation.

Model	Measurable temperature range	Overall dimension D*H*W(mm)	Inner box size D*H*W(mm)	Power(KW)	Voltage / Frequency	Number of phases	Gross weight (kg)
CV340-80L	-40°C ~ 150°C -20°C ~ 150°C	1250*1510*700	400*500*400	5.0KW 4.5KW	AC220V/50H	1 phase/3 wire	307
CV340-150L	-40°C ~ 150°C -20°C ~ 150°C	1350*1610*800	500*600*500	5.0KW 4.5KW	AC220V/50H	1 phase/3 wire	367
CV340-225L	-40°C ~ 150°C -20°C ~ 150°C	1350*1720*970	500*750*600	7.0KW 6.0KW	AC380V/50H	3 phase/5 wire	422
CV340-408L	-40°C ~ 150°C -20°C ~ 150°C	1450*1820*1080	600*950*800	8.0KW 7.0KW	AC380V/50H	3 phase/5 wire	518
CV340-1000L	-40°C ~ 150°C -20°C ~ 150°C	1850*1970*1280	1000*1000*1000	14.0KW 12.0KW	AC380V/50H	3 phase/5 wire	783

- High quality refrigeration system and refrigeration auxiliary parts**
 Tecumseh fully hermetic high efficiency compressor from France, solenoid valve from Japan, and pressure controller & oil separator are international famous brand.
- A variety of safety protection**
 The burn prevention switch, the high-pressure protection for the compressor, the overheating protection for the compressor, the over current protection for the compressor, the no-fuse switch protection, the short-term water shortage alarm and the long-term water shortage shut-down protection.
- Various sizes can be customized**
 Such as 80L, 150L, 225L, 408L, 800L, 1000L

Specifications

Temperature range	-20°C ~ $+150^{\circ}\text{C}$ (-60°C ~ -40°C ~ $+150^{\circ}\text{C}$ Optional)
Humidity range	20%~98%RH
Temperature and humidity control accuracy	$\pm 0.5^{\circ}\text{C}$; $\pm 3\%\text{RH}$
Temperature and humidity distribution uniformity	$\pm 2^{\circ}\text{C}$; $\pm 5\%\text{RH}$
Heating time temperature to	100°C , within 30 minutes
Cooling time temperature down to	-20°C , within 60 minutes
Testable area	500*750*600mm (D*H*W)



InnoFlex Bally Flexing Tester

InnoFlex Bally Flexing Tester is equipped with advanced servo motors for precise positioning, and a stable testing process, achieving more accurate and reliable test results. It is a smart instrument that can be connected to the SmarTexLab app installed in your smartphone via WIFI, which allows you to remotely set the parameters and monitor the testing process, greatly improving work efficiency. With a noise level of only 60 dB, it is user-friendly and durable. Suitable for a wide range of testing standards, such as ISO 5402-1:2017, ISO 32100:2018, and ISO 20344-2011, SATRA TM 55.

InnoFlex Bally Flexing Tester also known as InnoFlex Leather Folding Endurance Tester, is used to test the flexing resistance of leather, cloth, and other materials. Take one side of the sample as the inner side, and the other side as the outer side, then InnoFlex will bend the sample back and forth until the damage occurs, or bend a certain number of times to see the degree of damage, to determine the sample flexing strength.

InnoFlex

Bally Flexing Tester



More accurate and reliable tests

Microcomputer program control and advanced servo motor bring accurate positioning. The InnoFlex can automatically return to its original position and keep stable during the testing process to achieve more accurate and reliable tests.

Smart instrument

It can be connected with the SmarTexLab app installed in smartphones through WIFI, allowing test men to set parameters, monitor the testing process, and get alerts from the device on the smartphone, as well as share the test results in real-time.

Efficient and durable

12 workstations can be selected, and you can choose single station/multi-station mode. The running times of each mode can be counted separately, so you can test a variety of samples at the same time. The NSK bearings are from Japan, and the machine is made of precision mold-casting stainless steel, with a scratch-resistant appearance, and longer service life.

More user-friendly

The actual noise is only 60dB, much lower than other similar products in the market. The operation interface is ergonomic, and the running data can be saved, even if a power failure occurs.



Power
220/110V 50/60Hz



Weight
55kg



Dimension
850*490*287 mm(D*W*H)

Specifications

Testing station	12 stations
Testing speed	100r/min
Working stroke	swing angle 22.5°±0.5°
Test times	0~9999999 (adjustable)
Maximum clamping distance	maximum folding thickness of test product 7mm
Upper and lower spacing	The spacing between upper and lower clamps 25mm

Standard accessories

Cutter die 70X45mm

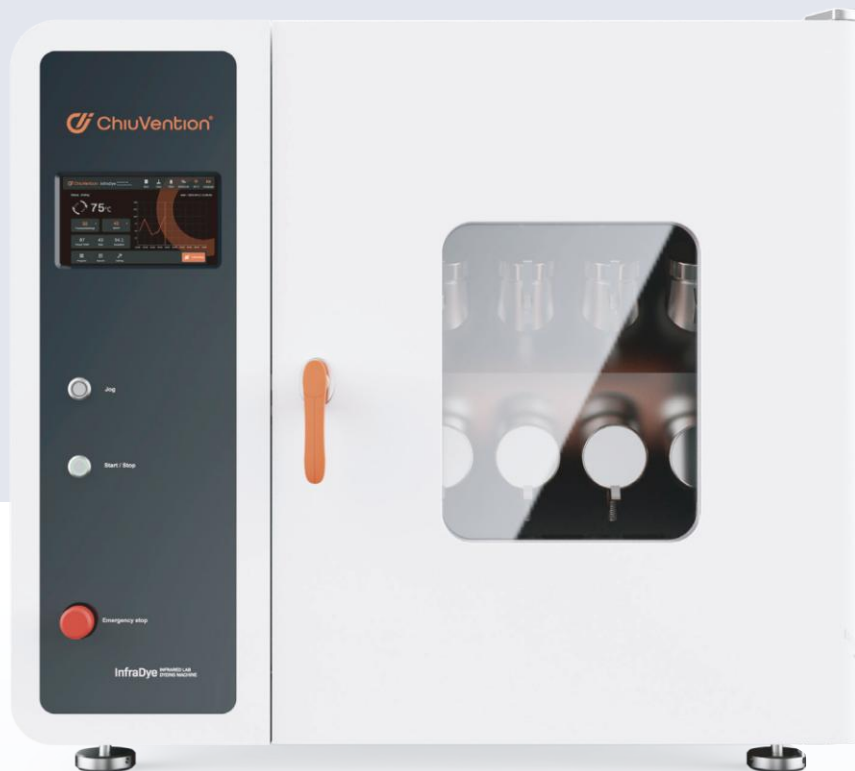
Standards

ISO 5402-1:2017 ISO 32100:2018 ISO 20344-2011



Optional standards

SATRA TM 55



InfraDye Infrared Lab Dyeing Machine

The InfraDye is designed to dye samples quickly and at a low cost. In order to reduce dyeing errors, textile manufacturers need lab dyeing machine for testing samples before dyeing large batches. In addition, fabric dyeing laboratories also need these machines for dyeing studies.

InfraDye

Infrared Lab Dyeing Machine



- Smart temperature control algorithm**
 Achieving different test temperatures, suitable for all kinds of dyeing with room temperature and high temperature.
- Multiple dyeing solutions**
 Can be realized at one time: different specimens can be dyed in different cups.
- Smart instrument**
 Can be connected through Wi-Fi with SmarTexLab App installed in the smart phones, set parameters, monitor the test status, receive equipment warning reminders, replenishment reminders, etc., and share test results with one click.
- User-friendly, convenient and efficient**
 Microcomputer control, simple operation, automatically retain the current data in case of power failure, the running process can be edited, and the buzzer automatically alerts after the test is completed.
- Stable, durable and noiseless**
 The transmission mechanism is upgraded to rotary operation, which is more stable, more durable and noiseless.
- Multiple safety protection**
 Such as over-temperature alarm function and automatic stop of rotating cup holder when the door is mistakenly opened.
- Temperature calibration function**
 Can avoid the temperature differences caused by the aging of the probe.

- Longer service life**
 Solid state relay control electric heating, no mechanical contact, long service life. The mechanical shell is made of stainless steel powder coating process, the mechanical interior is made of high quality SUS304 stainless steel, and the dyeing cup is made of SUS316, which is durable.



Power
230V/50Hz 32A



Weight
145kg



Dimension
710*840*750mm(D*W*H)

Specifications

Test temperature range	room temperature	0°C ~ 140 °C
Temperature control range	room temperature	25 °C ~ 140 °C
Heating temperature control speed		0.1 °C / min ~3 °C / min
Temperature control accuracy		± 0.5°C/min
Isothermal state		± 0.5°C/min
Temperature control mode		optimized automatic control
Rotational speed		0 ~ 50 rpm (adjustable)

Accessories

test cup volume	300±20ml	24pcs
T-socket wrench		1 pc
stainless steel copy wrench		1 pc
Fuse		4 pcs
Gloves		1 pc

Optional Accessories

Heating tube

TEST SMART NOW

Youtube Channel





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