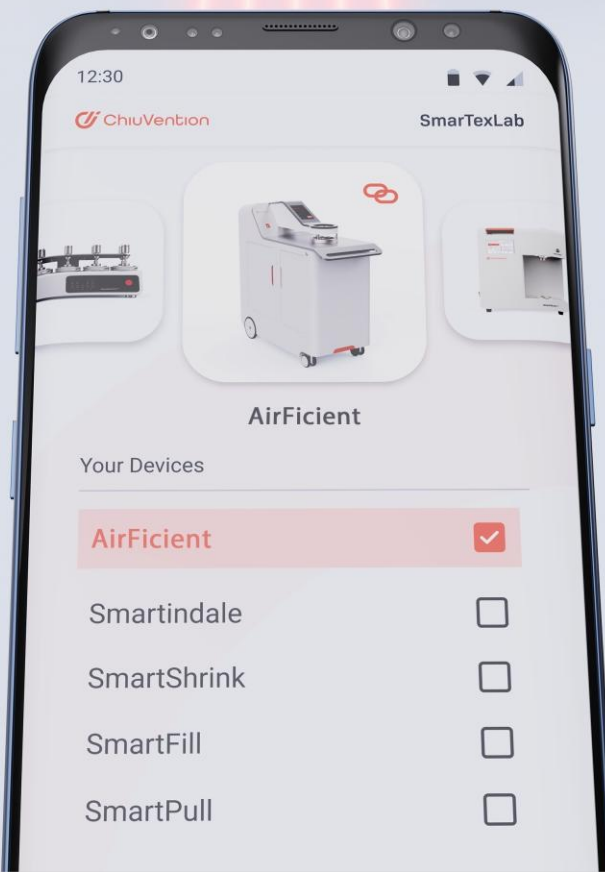


# THE DIGITAL FUTURE OF TEXTILE TESTING



# Why ChiuVention

## SmarTexLab

Track samples with RFID, QR code, etc.; Take new technologies such as visual inspection combined with AI algorithms to make testing instruments smarter; Reconfigure the processes of order recording, sampling, testing, reporting and realizing them with the SmarTexLab intelligent lab system based on lean production concepts; Install SmarTexLab system on smart instruments and smartphones/tablets/computers and interconnecting them with IoT technology; You can also link the instruments and SmarTexLab with labs LIMS or directly to factory ERP. So ultimately link to the quality management systems of apparel brands to realize the digitalization of the whole value chain! Make the test transparent, more accurate and faster!



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to learn more

## What is Important

### Mission

The Digital Future of Textile Testing

### Vision

Be the global leader in smart textile instruments

### Core Values

Centered on the Customers

Centered on the Strivers

Honest Trustworthy

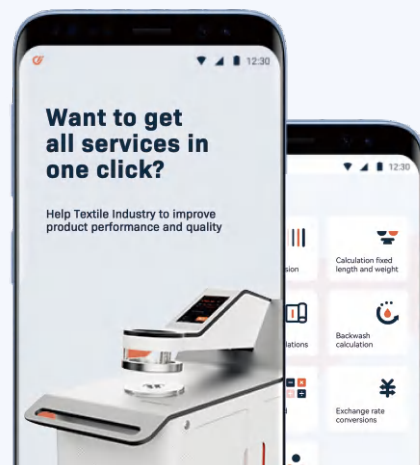
Open Innovative

## 30% More Reliable

Reliable and easy-to-use smart instrument designed by German Team and SmarTexLab system, which can finish the work: identifying samples by code scanning, smart sample cutting and automatic sample making, as well as automatic program selection, machine vision inspection, and AI intelligent algorithm to obtain test results. Finally the system can automatically output and send test reports. Professional operation is no longer required, which greatly reduces human errors and improves test reliability by about 30%.

## 50% Faster

Enter the sample info into the system. Select the test requirements to generate QR codes. The smart cutting machine scans and cuts the samples in one go. The lab technician receives the info and notifies receipt of the samples. Then, the instrument scans the codes and installs the samples. It automatically selects a program and completes the test. After setup, all original records will be uploaded to the SmarTexLab system. All test items will be summarized to output a report. The related parties can view the reports from smartphones or computers. After the seller tests the inventory, the buyer can use it in production. This saves time, as there is no need to repeat the test. The whole process is about 50% faster.



ISO9001-  
Certified by SGS



National  
High-Tech Enterprise



Member of ASTM



Member of AATCC

# Smart Instruments & Quality Standard

## **Strictly meet standards**

All data for each instrument meet the standard parameters.

## **Consistent with international third party laboratories**

All test results are consistent with those of well-known international third party laboratories.

## **High repeatability**

By using the standard calibration cloth, the same machine, after multiple tests, the results are consistent.

## **High reproducibility**

By using the standard calibration cloth, 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 was incorporated in Europe, the U.S., and China. Designed in Germany, we specialize in developing smart instruments for functional textiles and testing digitalization. ChiuVention is the first company in the world to propose the "SmarTexLab" and to promote the digital future of textile testing together with the world's top sports brands.

ChiuVention, formerly known as TESTEX, which was founded in 2010 and focuses on the international market, fully started the smart testing innovations in 2020. At ITMA 2023 in Milan, Italy, with the newly created smart textile laboratory system SmarTexLab and a series of smart instruments, ChiuVention finished the global launch, which was widely recognized in the international arena. ChiuVention has attracted top sports brands and research groups. It has since cooperated with them to develop smart testing tools for digital textiles and functional fabrics.

ChiuVention is sold in 42 countries and regions through the global agent network, the main markets are European countries and the United States. Recognized and recommended by the world's first-tier apparel brands, ChiuVention is also growing rapidly in recent years in Southeast Asia and China's market. We have been serving third-party testing organizations such as SGS, Intertek, BV, and sports and fashion brands such as NIKE, adidas, Anta, Decathlon, etc. for more than ten years and has gained a good reputation.

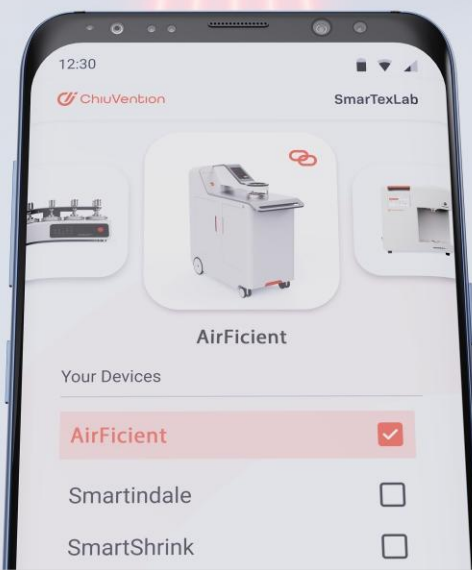
ChiuVention insists on customer-centeredness, takes the digital future of textile testing as our mission, and aspires to be the global leader of smart textile instruments! TEST SMART NOW!



Youtube Channel

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**SmarTexLab**  
(Android Apps)

# What are we facing in textile testing?

## Unreliable Testing

In the traditional testing process, 3 people may get 3 different test results, and transcription, calculation, and data entry may also lead to errors.

## Non-transparent Testing

Samples and consumables, the process of testing and the status of instruments, temperature and humidity, etc. are not fully documented and are difficult to trace. Therefore, there is a possibility of falsification or alteration.

## Long Testing Cycle

Production may only take 3 days, but testing takes 3 days as well, due to the amount of labor and time required to record, calculate, and summarize the test results of each sample, and enter them into the computer to form reports.

# ChiuVention Solution — SmarTexLab

## What is SmarTexLab?

Apply RFID, QR code, and other technologies to sample tracking; Use technologies like visual inspection and AI algorithms to make test instruments smarter; Connect each smart instrument to the SmarTexLab system on the smartphone, tablet, or computer via IoT technology. And then connect it with factory ERP or lab LIMS, and also with brands quality management system.

## How does SmarTexLab operate?

You can send the test standard of the order directly to the instrument via ERP. Then, the instrument can execute the test after scanning the order samples' code. It will summarize the report and send it back to ERP after completing the tests. It will also check if the quality meets the requirements and retain all the original data for traceability.

## SmarTexLab mobile App

You can download the APP to monitor each lab instrument remotely. The instrument will be upgraded by remote OTA software regularly. You can contact ChiuVention online for support. The instrument will remind the admin to calibrate, maintain, and replace consumables regularly. On the APP, you can check training videos and view articles on various tests.

# TEST SMART NOW



Follow us on LinkedIn  
to learn more



## SmartShrink Shrinkage Rate Tester

The SmartShrink Shrinkage Rate Tester measures fabric shrinkage and twist rate after washing, steaming, and dry cleaning. It takes under 5 seconds. It is fully compatible with various shrinkage testing standards, including AATCC, ASTM, ISO, JIS, and GB. SmartShrink can automatically measure fabric shrinkage and generate test reports. It saves test data and sample photos, also shows test results in real-time. Users can see them on PCs and smartphones using the SmarTexLab app via IoT tech. SmartShrink can also be connected with enterprise ERP or LIMS to facilitate shrinkage data management, make testing faster and reduce costs by more than 90%. Well-known brands and laboratories have taken the lead in using the instrument: adidas Germany, AEO Supply Chain, Anta Supply Chain, Bureau Veritas, Intertek, the China Textile Association, and Texwinca Textile Group.

# SmartShrink

## Shrinkage Rate Tester



- ### More accurate and reliable test results

Visual inspection technology, clicking the button to take the picture of fabric sample, combined with AI algorithms, then the fabric shrinkage rate and twist rate can be measured in 5 seconds and the system will output a report automatically. The test results are more accurate and reliable than manual measurement.

- ### Compatible with various shrinkage testing standards

Whether it is AATCC, ASTM, ISO, JIS, GB, etc., it can be applied. Multiple dimensions of shrinkage data can be measured at once.

- ### Well-known brands and laboratories are using the instrument.

adidas Germany, AEO Supply Chain, Anta Supply Chain, Bureau Veritas, Intertek, the China Textile Association, and Texwinca Textile Group.

- ### Smart Shrinkage Rate Test

The instrument connects to the SmarTexLab APP via IoT on a smartphone or computer. It then connects to ERP/LIMS through an API. The instrument can also connect directly to ERP/LIMS. Test orders and standards can be sent to the instrument. The sample information can be read by scanning the code. The program can be automatically selected and tested. After the test, a digital raw record will be created. It will include the test process, results, temperature, and humidity. This record will be uploaded to the system. It will be summarized with other tests to output a report. All relevant parties can view the report in real-time. The operator can remotely monitor the status of multiple tests. They can also modify the test requirements, get a reminder before the test ends, and stop or repeat the test. You can use online chat to get quick support from ChiuVention customer service. Also, receive reminders to calibrate, maintain, and replace consumables on the instrument. Lastly, perform OTA remote upgrades regularly.

-  **Power**  
220/110V 50/60Hz
-  **Weight**  
40kg
-  **Dimension**  
810\*690\*1170 mm(L\*W\*H)

### The Specification of SmartShrink

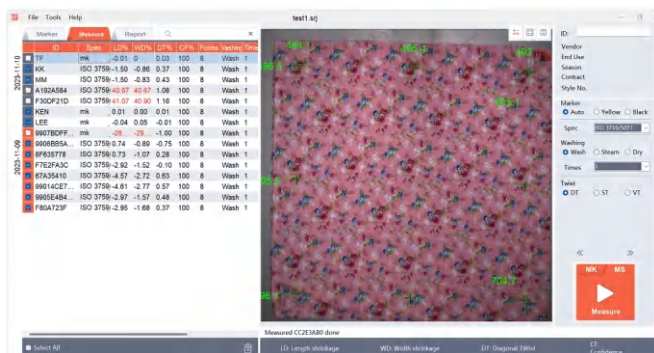
Test mode: automatic test

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







## SmartDry Drying Rate Tester

SmartDry is suitable for testing quick-drying fabrics. Equipped with high-precision temperature sensors, wind speed sensors, and precision dripping devices, SmartDry can quickly simulate the process of human sweating and quickly determine the drying rate of textiles. Unique uniform airflow control and magnetic stripe fixture for sample pressing make the test more reliable. The drying rate test takes only a few minutes. Its results match those of international third-party tests. Lululemon Canada headquarters is in use, and it is in line with the adidas standard, so it is widely used by adidas-recognized suppliers (such as Jiale Textile in Indonesia).

# SmartDry

## Drying Rate Tester



- A unique uniform wind speed control and magnetic stripe fixture, making the test more reliable.**

The wind is more uniform and smooth during the test. The sample and test plate are closely adhered, all above reproduce the actual evaporation process. A built-in temperature and humidity sensor makes the results more reliable.
- Fast test, test results are highly consistent with authoritative testing organizations.**

A drying rate test can be done in a few minutes. Its results match those of international third-party testing organizations.
- Lightweight and easy to use, well-known brands are using it.**

Lululemon's Canadian HQ is using it. It meets adidas' standards and is widely used by suppliers recognized by adidas, like Jiale Textile Corp. In Indonesia.
- Smart Drying Rate Test**

The instrument connects to the SmarTexLab APP via IoT on a smartphone or computer. It then connects to ERP/LIMS through an API. The instrument can also connect directly to ERP/LIMS. Test orders and standards can be sent to the instrument. The sample information can be read by scanning the code. The program can be automatically selected and tested. After the test, a digital raw record will be created. It will include the test process, results, temperature, and humidity. This record will be uploaded to the system. It will be summarized with other tests to output a report. All relevant parties can view the report in real-time. The operator can remotely monitor the status of multiple tests. They can also modify the test requirements, get a reminder before the test ends, and stop or repeat the test. You can use online chat to get quick support from ChiuVention customer service. Also, receive reminders to calibrate, maintain, and replace consumables on the instrument. Lastly, perform OTA remote upgrades regularly.



**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



## AirFicient Air Permeability Tester

AirFicient tests the air permeability of various textiles. These include technical textiles, nonwovens, and other breathable products like sponge paper. It is simple to operate. You can select the test standard and unit of measurement on the screen. The instrument automatically recognizes the test fixture head's ranges. This allows for quick testing and results in seconds. High-quality, maintenance-free core and range conversion components ensure reliable, repeatable test results. A self-designed calibration system ensures the test is always accurate. Canada Goose HQ is using the instrument, and the world's No. 1 electric car brand (USA) uses the instrument for testing automotive interiors.

# AirFicient Air Permeability Tester



- More reliable test results**  
 Test results are highly consistent with third-party authoritative testing organizations. High-quality core components and range conversion components are maintenance-free and wear-free, bringing high repeatability and reliability to test results.
- Self-designed calibration system ensures accurate testing at all times**  
 The calibration system has been tested by a third party and is authoritative and reliable, making it convenient for users to calibrate the instrument at any time.
- User-friendly design for fast test and low noise**  
 AirFicient is easy to operate, you can select the test standards and measurement units on the operation screen. The instrument also automatically recognizes the different ranges of the test fixture head. The AirFicient is quick to test, delivers results in seconds, and operates at low noise levels.  
 Canada Goose (Canada headquarters) and the world's No. 1 electric car brand (USA) uses the instrument for testing automotive interiors.
- Smart Air Permeability Test**  
 The instrument connects to the SmarTexLab APP via IoT on a smartphone or computer. It then connects to ERP/LIMS through an API. The instrument can also connect directly to ERP/LIMS. Test orders and standards can be sent to the instrument. The sample information can be read by scanning the code. The program can be automatically selected and tested. After the test, a digital raw record will be created. It will include the test process, results, temperature, and humidity. This record will be uploaded to the system. It will be summarized with other tests to output a report. All relevant parties can view the report in real-time. The operator can remotely monitor the status of multiple tests. They can also modify the test requirements, get a reminder before the test ends, and stop or repeat the test. You can use online chat to get quick support from ChiuVention customer service. Also, receive reminders to calibrate, maintain, and replace consumables on the instrument. Lastly, perform OTA remote upgrades regularly.



**Power**  
220/110V 50/60Hz



**Weight**  
125kg



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

## The Specification of AirFicient

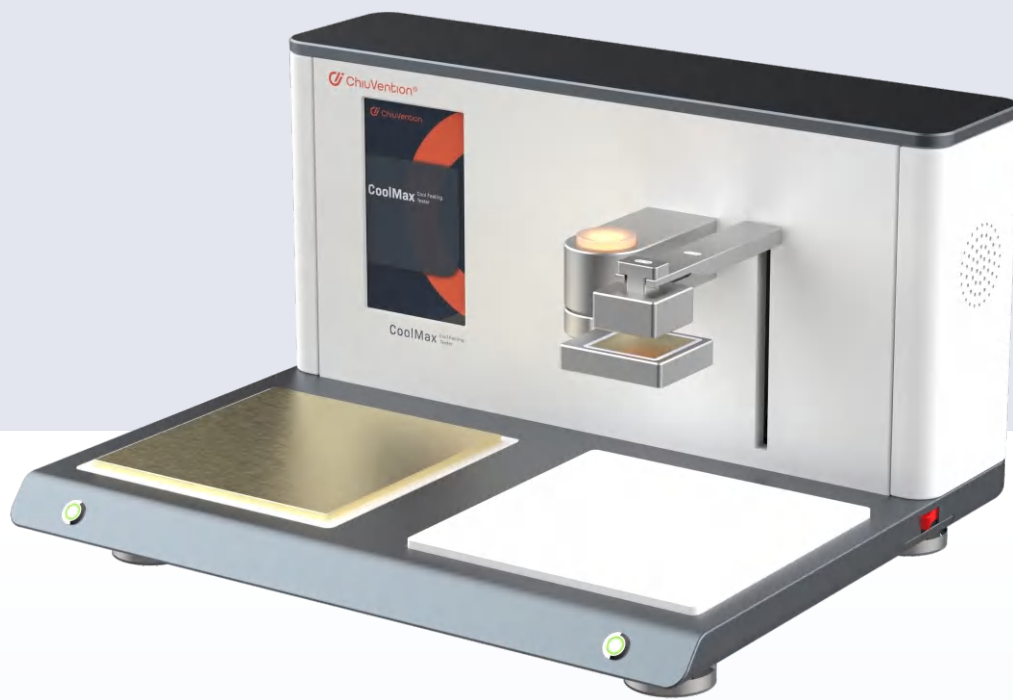
Measurement units:	mm/s, m/s, l/m <sup>2</sup> /s, ft <sup>3</sup> /min/ft <sup>2</sup> , cfm cm <sup>3</sup> /s/cm <sup>2</sup> , l/s/cm <sup>2</sup> , l/m <sup>2</sup> /min 1/dm <sup>2</sup> /min, l/min, m <sup>3</sup> /min, dm <sup>3</sup> /s m <sup>3</sup> /s/m <sup>2</sup> , m <sup>3</sup> /min/m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

## 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



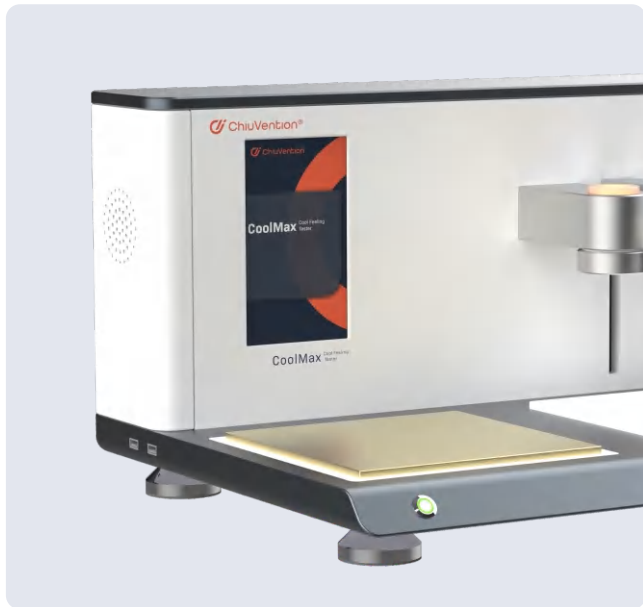
## CoolMax

### Cool Feeling Tester

The CoolMax Cool Feeling Tester tests textiles with instant cooling. It checks if they can dissipate heat and cool. This assesses their cooling effect. The test applies to knitted and woven fabrics. The equipment can simulate real-life usage scenarios. High-precision temperature sensors will record instantaneous temperature changes. The software will analyze the data and generate Q-max values. The test takes seconds. It has adjustable parameters and yields very reliable results. IoT tech can connect the instrument to smartphones and computers. It can also link to ERP and LIMS systems. This will greatly improve testing efficiency.

# CoolMax

## Cool Feeling Tester



### More reliable test results

The equipment is able to simulate real use scenarios. The heating plate is heated to the average temperature of the human body ( $35\pm 0.5$ ), making full contact with the fabric contact surface, the high-precision temperature sensor records the instantaneous temperature change, and the software analyzes and generates the Q-max value directly. The test results are highly reproducible and repeatable.

### Rapid testing and meets a wide range of testing standards

The CoolMax Cool Feeling Tester takes only 10 seconds to complete a test, especially suitable for batch testing, such as textile R&D, production and quality control. Adjustable parameters: test parameters (e.g., heating plate temperature, contact pressure, etc.) to meet multiple standards and a wide range of testing needs.

### Smart Cool Feeling Test

The instrument connects to the SmarTexLab APP via IoT on a smartphone or computer. It then connects to ERP/LIMS through an API. The instrument can also connect directly to ERP/LIMS. Test orders and standards can be sent to the instrument. The sample information can be read by scanning the code. The program can be automatically selected and tested. After the test, a digital raw record will be created. It will include the test process, results, temperature, and humidity. This record will be uploaded to the system. It will be summarized with other tests to output a report. All relevant parties can view the report in real-time. The operator can remotely monitor the status of multiple tests. They can also modify the test requirements, get a reminder before the test ends, and stop or repeat the test. You can use online chat to get quick support from ChiuVention customer service. Also, receive reminders to calibrate, maintain, and replace consumables on the instrument. Lastly, perform OTA remote upgrades regularly.



#### Power

220/110V 50/60Hz



#### Weight

30 kg



#### Dimension

435\*545\*315 mm(D\*W\*H)

### The Specification

Heat detection plate temperature  $35\pm 0.5^\circ\text{C}$ , adjustable from  $20^\circ\text{C}$  to  $40^\circ\text{C}$

Cold plate 1 Polyester foam plate, Size 220mm \* 220mm

Cold plate 2 Copper plate temperature  $25^\circ\text{C}$ , Size 200mm \* 200mm, Precise temperature control

Temperature display resolution of  $0.01^\circ\text{C}$  for thermal test plate and sample carrier. Response time of thermal inspection plate  $< 0.2\text{s}$

Test time 1~99s adjustable

Testing mode manual/automatic

Test sample area 200\*200 mm

Real-time test control system developed based on the Android system, which can display the test curve in real time.

With two USB-A interfaces, you can directly export the test report or external other supporting equipment.

Light flashes when the test is complete.

### Standard

FZ/T 73067-2020

GB/T 35263-2017

CNS 15687-2013

JIS L 1927-2016

FTTS-FA-019

T/CTCA4



## HydroDetector

### Hydrostatic Head Tester

HydroDetector is used for hydrostatic pressure testing of textiles, leather and film to assess the waterproof penetration ability of materials under high water pressure. The high-definition camera records and analyzes the whole process with AI. It detects the third drop of water, stops the test, and alerts the operator via a smartphone app. It also uploads the test results and retains the video and pictures for traceability. IoT tech can connect the instrument to smartphones and computers. It can also link to ERP and LIMS systems. This will greatly improve testing efficiency. It can precisely control the test pressure and range. It can also perform a high pressure test of 600 Kpa.

# HydroDetector

## Hydrostatic Head Tester

- **Ultra-high-definition industrial vision camera, can recognize the water droplets and end the test.**

After starting the test, the ultra-high-definition camera will: Photograph the sample's surface. Monitor the water seepage. Identify, then record the time and pressure of the three water droplets. It will then stop the test and notify the operator via the SmarTexLab App.

- **Intelligent detection and manual judgement**

In addition to intelligent detection of water droplet oozing, manual observation and judgement can also achieve. When the test is completed, image reports and videos are generated, and the results can be manually verified by playing back the videos.

- **Avoid water spraying after bursting of sample**

A unique and precise pressurisation mode that can pressurise the sample without compressed air. It gently and stably pressurises the sample, avoiding water spray after the sample bursts.

- **High-pressure testing is possible.**

HydroDetector are capable of high-pressure testing up to 600 kPa. You can customize higher test pressures.

- **Intelligent Sample Clamping System**

The instrument drives the servo clamping system with an AI algorithm. During testing, it can adjust the clamping pressure based on the samples' thickness and hydrostatic pressure resistance. This prevents water leakage while ensuring the right pressure. It also avoids changing the fabric's shape or structure. This prevents invalid tests from damaged samples or seepage at the edges.

- **Smart Hydrostatic Head Test**

The instrument connects to the SmarTexLab APP via IoT on a smartphone or computer. It then connects to ERP/LIMS through an API. The instrument can also connect directly to ERP/LIMS. Test orders and standards can be sent to the instrument. The sample information can be read by scanning the code. The program can be automatically selected and tested. After the test, a digital raw record will be created. It will include the test process, results, temperature, and humidity. This record will be uploaded to the system. It will be summarized with other tests to output a report. All relevant parties can view the report in real-time. The operator can remotely monitor the status of multiple tests. They can also modify the test requirements, get a reminder before the test ends, and stop or repeat the test. You can use online chat to get quick support from ChiuVention customer service. Also, receive reminders to calibrate, maintain, and replace consumables on the instrument. Lastly, perform OTA remote upgrades regularly.



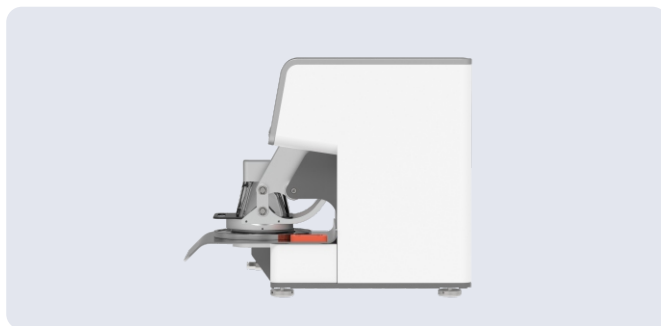
**Power**  
220/110V 50/60Hz



**Weight**  
60kg



**Dimension**  
360\*670\*635 mm (L\*W\*H)



### Specification

Standard test head	100cm <sup>2</sup>
Units	Pa, kPa, mmHg, cm H <sub>2</sub> O
Pressure range	0~600 Kpa (50m water column )
Rising speed of water pressure	1 ~ 60 kPa/min, with variable and adjustable speed

### Standard

AATCC 127 Option 2  
ISO 811  
GB/T 4744  
GB/T 40910  
JIS L1092

### Optional Standard

ISO9073-16  
EN 1734  
ISO 1420  
AATCC 208  
IS 7016(Part7)  
NWSP 080.6.RO(15)  
GB/T 24218.16  
FZ/T 01004





## ElmenGuide Elmendorf Tear Tester

The ElmenGuide Tearing Strength Tester, or Pendulum Tear Tester, measures fabric tear resistance. This instrument is stable and reliable for testing. The original balanced pendulum improves testing accuracy. ElmenGuide can auto-recognize weights and adjust the range. A dual-button switch design prevents collisions and injuries. A sensitive brake device and easy-to-use fixtures make the test user-friendly. IoT tech can connect the instrument to smartphones and computers. It can also link to ERP and LIMS systems. This will greatly improve testing efficiency.

# ElmenGuide

## Elmendorf Tear Tester



- Self-developed calibration system for more reliable testing**  
 Multiple calibration points for each test range to ensure stable and reliable testing.
- Automatic recognition of weights**  
 The machine can automatically recognize the hanging weights and adjust the matching range automatically.
- Unique balanced pendulum to achieve a higher level of testing accuracy.**  
 The pendulum arm is specially designed so that the center of gravity of the whole pendulum arm coincides with the center of rotation when the weights are not hung. So the machine is more precise and reliable.
- Humanized design, safer**  
 Double-button switch design, anti-collision function, sensitive brake device, easy to use fixture, more friendly to the testers.
- Smart Tearing Strength Test**  
 The instrument connects to the SmarTexLab APP via IoT on a smartphone or computer. It then connects to ERP/LIMS through an API. The instrument can also connect directly to ERP/LIMS. Test orders and standards can be sent to the instrument. The sample information can be read by scanning the code. The program can be automatically selected and tested. After the test, a digital raw record will be created. It will include the test process, results, temperature, and humidity. This record will be uploaded to the system. It will be summarized with other tests to output a report. All relevant parties can view the report in real-time. The operator can remotely monitor the status of multiple tests. They can also modify the test requirements, get a reminder before the test ends, and stop or repeat the test. You can use online chat to get quick support from ChiuVention customer service. Also, receive reminders to calibrate, maintain, and replace consumables on the instrument. Lastly, perform OTA remote upgrades regularly.



**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



## HydroBurst Bursting Strength Tester

HydroBurst adopts hydraulic drum explosion (elastic diaphragm method) to determine the expansion force and expansion degree of materials such as knitted fabrics, woven fabrics, nonwoven fabrics and laminated fabrics, elastic woven fabrics, paper, etc., when they are subjected to simultaneous force in the warp, weft and all directions, or the resistance of materials to expansion and breaking. HydroBurst realizes accurate control of the speed of expansion and breaking by one-time pre-testing. Equipped with high precision sensors and intelligent recognition system for test cups, the HydroBurst provides higher precision and more efficient testing, and the sensor has a longer service life.





## AirBurst Bursting Strength Tester

Bursting strength testers are usually hydraulic or pneumatic. The AirBurst pneumatic tester is for testing common materials like textiles, films, paper, foam, and plastics. Its simple design makes it easy to operate and maintain. The HydroBurst tests materials needing high, stable pressure, like high-strength textiles and leather. The AirBurst can realize one-button test. It has built-in test standards and lets users define test modes for flexible testing. Clamping pressure is precisely adjustable, widely adapted to different sample testing. It can automatically recognize the test cup, to reach quick test and avoid errors. Automatic lifting of the protective cover ensures safety throughout the test. Compact body, modular design, easy calibration and maintenance.

# AirBurst

## Bursting Strength Tester



- One pre-test can accurately control the bursting speed**

The full servo hydraulic system is controlled by AI algorithm, together with precise screw drive, only by one pre-test, the machine can reach the expansion speed within the standard requirements of 20s.

- High Precision Sensor**

The pressure measurement part uses high-precision pressure sensors, and the precision can reach 0.2 level.

- Smart recognition system for test cups**

When replacing the test cup for testing, the system will automatically recognize the model of the current test cup and automatically switch the test parameters without manual input changes, greatly improving work efficiency.

- Accurate measurement of expansion height**

The micron-polar laser sensor goes right to the test sample, and the high-speed response makes testing faster and more accurate.

- Smart Bursting Strength Test**

The instrument connects to the SmarTexLab APP via IoT on a smartphone or computer. It then connects to ERP/LIMS through an API. The instrument can also connect directly to ERP/LIMS. Test orders and standards can be sent to the instrument. The sample information can be read by scanning the code. The program can be automatically selected and tested. After the test, a digital raw record will be created. It will include the test process, results, temperature, and humidity. This record will be uploaded to the system. It will be summarized with other tests to output a report. All relevant parties can view the report in real-time. The operator can remotely monitor the status of multiple tests. They can also modify the test requirements, get a reminder before the test ends, and stop or repeat the test. You can use online chat to get quick support from ChiuVention customer service. Also, receive reminders to calibrate, maintain, and replace consumables on the instrument. Lastly, perform OTA remote upgrades regularly.

	<b>Power</b> AC 220V 50HZ
	<b>Weight</b> 120kg
	<b>Dimension</b> 600*360*660 mm (L*W*H)

### Specification

Maximum air pressure	1.5 MPa
Measurement accuracy	±2% FS
Measuring range	0.01~1.5 Mpa
Test head area	Φ 79.8mm(50cm <sup>2</sup> ), Φ 112.8mm(100cm <sup>2</sup> ), Φ 35.7mm(10cm <sup>2</sup> ), Φ 30.5mm(7.3cm <sup>2</sup> )
Maximum expansion height	70±1mm
Operation System	Android
IoT (Internet of Things )	configuration is required

### Standard

ISO 13938-2  
GB/T 7742.2  
ASTM D3786

### Environmental Requirements

Operating temperature range	20 °C±2°C
Storage temperature range	-20°C~60°C
Operating humidity range	65% ± 4%
Air source	0.4 ~0.7MPa



## Smartindale Martindale Abrasion & Pilling Tester

The Smartindale is used for abrasion and pilling tests on fabrics. It uses a digital algorithm to create a Lissajous curve to drive the friction. It runs accurately without calibration. You can switch the abrasion and pilling tests with a one-click touch on the screen button. No need to change the pins. After over 10 million cycles of ultra-high-intensity friction testing (equal to three years of nonstop operation) with rubber samples and double weights, the Lissajous curve is still accurate and perfect. The flip cover design is easy to see and use. Bureau Veritas (Guangzhou) and Japan Inspection BOKEN (Qingdao) use this instrument. Testers recognize it as easy to use.

# Smartindale Martindale Abrasion & Pilling Tester



- **One-touch switching between pilling and abrasion testing, more efficient**

One-touch switching of test modes (abrasion, pilling, or straightness) on the control panel. So you do not need to remove the cover and change the pin position.

- **The Lissajous curve is calibration-free, while the test is more reliable.**

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 over 10 million cycles of ultra-high-intensity friction testing (equal to three years of nonstop operation) with rubber samples and double weights, the Lissajous curve is still accurate and perfect. So the test is more reliable.

- **Flip-up cover for easy observation and operation**

The upper cover can be easily flipped up and locked with one hand, making it easy for the operator to observe the test; it also greatly facilitates the installation of consumables and samples; and the slow-lowering device of cover ensures the safety of operator and the machine.

- **Easy to use**

Bureau Veritas (Guangzhou) and Japan Inspection BOKEN (Qingdao) use this instrument. Testers recognize it as easy to use.

- **Smart Abrasion and Pilling Test**

The instrument connects to the SmarTexLab APP via IoT on a smartphone or computer. It then connects to ERP/LIMS through an API. The instrument can also connect directly to ERP/LIMS. Test sample information, test process and results can be uploaded to the system and summarized with other tests to output reports. You can communicate with ChiuVention customer service personnel online to get support quickly; receive reminders of instrument calibration, maintenance, and replacement of consumables; and perform OTA remote upgrades on a regular basis.



#### 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

The Unidale Martindale Abrasion and Pilling Tester is stable and reliable. The instrument has various running trajectories and stations. Measuring speed is optional. It has a butterfly guide plate design. It's lightweight, space-saving, and easy to observe the test status. Its precision design features an aluminum alloy with a hard, oxidized surface. It's both well-designed and durable. It can test the abrasion resistance and pilling of cotton, linen, and silk woven fabrics. It also works for other textiles, membrane materials, knitted fabrics, woolen fabrics, artificial leather, synthetic leather, gloves, and labor protection materials.

# Unidale

## Martindale Abrasion & Pilling Tester



### Smart Abrasion and Pilling Test

The instrument connects to the SmarTexLab APP via IoT on a smartphone or computer. It then connects to ERP/LIMS through an API. The instrument can also connect directly to ERP/LIMS. Test sample information, test process and results can be uploaded to the system and summarized with other tests to output reports. You can communicate with ChiuVention customer service personnel online to get support quickly; receive reminders of instrument calibration, maintenance, and replacement of consumables; and perform OTA remote upgrades on a regular basis.

### 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



## PillSnag

### ICI Pilling and Snag Tester




The PillSnag evaluates the pilling and hooking properties of textiles. It can be flexibly configured with a variety of standards, 2 or 4 stations, and it can also be equipped with round or octagonal boxes specified by European clothing brands, and European or Japanese standard hook and loop boxes are also available. The test places the sample on a polyurethane tube. It then puts the tube inside a roller box, which a drive system rotates at a constant speed. A cork-lined abrasive or hooking nail inside the roll box rubs against the sample. This simulates actual use by pilling and hooking. After rolling a set number of times, the sample is removed. It is then compared to a standardized sample to assess pilling and hooking.

# PillSnag

## ICI Pilling and Snag Tester



- Flexible configurations to suit all standards**  
 It can be flexibly configured with a variety of standards, 2 or 4 stations, and It can also be equipped with round or octagonal boxes specified by European clothing brands, and European or Japanese standard hook and loop boxes are also available.
- Smart Pilling and Snagging Test**  
 The instrument connects to the SmarTexLab APP via IoT on a smartphone or computer. It then connects to ERP/LIMS through an API. The instrument can also connect directly to ERP/LIMS. Test orders and standards can be sent to the instrument. The sample information can be read by scanning the code. The program can be automatically selected and tested. After the test, a digital raw record will be created. It will include the test process, results, temperature, and humidity. This record will be uploaded to the system. It will be summarized with other tests to output a report. All relevant parties can view the report in real-time. The operator can remotely monitor the status of multiple tests. They can also modify the test requirements, get a reminder before the test ends, and stop or repeat the test. You can use online chat to get quick support from ChiuVention customer service. Also, receive reminders to calibrate, maintain, and replace consumables on the instrument. Lastly, perform OTA remote upgrades regularly.
- Multiple testing modes to meet different needs**  
 The equipment can carry out a variety of modes of testing to meet the needs of different textile testing.

	<b>Power</b> 220/110V 50/60Hz
	<b>Weight</b> 100kg
	<b>Dimension</b> 470*860*900 mm(D*W*H)

### Specification

Forward and reverse rotation function	
Chamber interior dimensions	235mm *235mm * 235mm (excluding cork lining)
Chamber rotation speed	30-70 rpm (adjustable)
Chamber rotation count	2-999999 times (settable)
Sample holder tube	Dimensions: $\Phi$ 31.5 +/- 1 mm *140 +/- 1 mm Weight: 52.25g +/- 1g
Sample plate	125mm * 125mm

### Optional Accessories

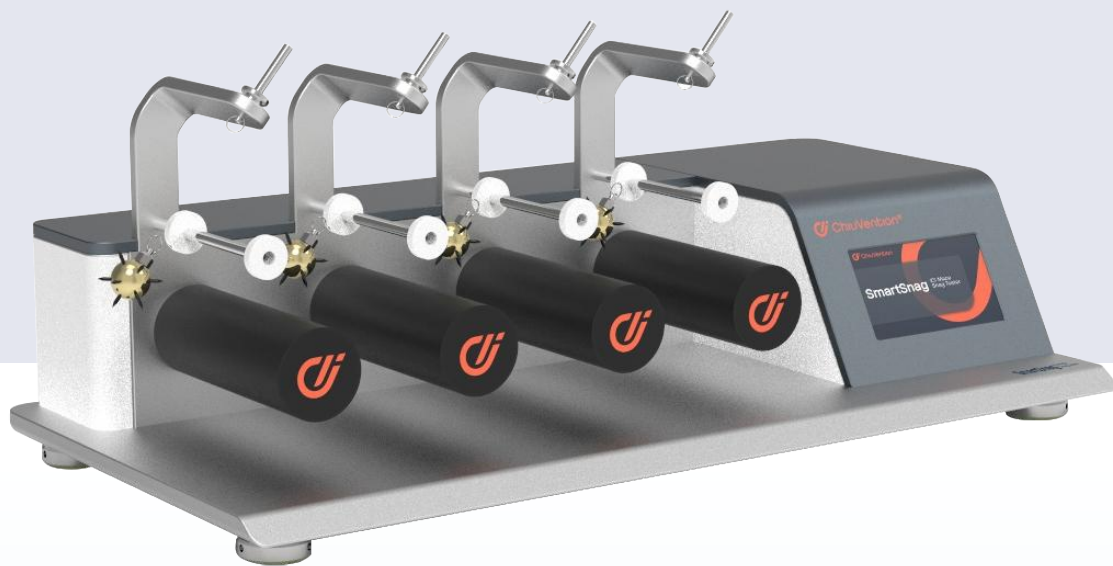
Pilling assessment viewer
Mounting fixtures (for easy sample installation)
Cork linings – Pack of 6
Rubber tubes – Pack of 4

### Standard

- ISO 12945-1
- GB/T 4802.3
- NEXT TM19
- BS 5811

### Optional Standard

- BS 8479
- JIS L1058 Method D-2



## SmartSnag ICI Mace Snag Tester

SmartSnag checks how easily a fabric can be hooked under normal wear. For evaluating the degree of hooking of outerwear and other fabrics, especially those made of chemical fibers or filaments. The test takes 10 minutes. It is a true reproduction of the hooking scene. The results are reliable. It is low noise and durable.

# SmartSnag

## ICI Mace Snag Tester



### 10-minute test with reliable results

This ICI Mace Snag Tester runs fast and the rotation speed can be adjustable. The ball has tungsten carbide needles evenly distributed on it. They contact the specimen in 360 degrees. This realistically reproduces the hooking scenario and makes the test results more reliable.

### Durable and low-noise

Precise and high-grade motor drive, smooth running, and low noise. The whole shell and main structure are made of hard, rustfree, impact resistant oxidized aluminum alloy and stainless steel. They are still as good as new after many years.

### Smart Snagging Test

The instrument connects to the SmarTexLab APP via IoT on a smartphone or computer. It then connects to ERP/LIMS through an API. The instrument can also connect directly to ERP/LIMS. Test orders and standards can be sent to the instrument. The sample information can be read by scanning the code. The program can be automatically selected and tested. After the test, a digital raw record will be created. It will include the test process, results, temperature, and humidity. This record will be uploaded to the system. It will be summarized with other tests to output a report. All relevant parties can view the report in real-time. The operator can remotely monitor the status of multiple tests. They can also modify the test requirements, get a reminder before the test ends, and stop or repeat the test. You can use online chat to get quick support from ChiuVention customer service. Also, receive reminders to calibrate, maintain, and replace consumables on the instrument. Lastly, perform OTA remote upgrades regularly.



#### Power

220/110V 50/60 Hz



#### Weight

62kg



#### Dimension

900\*460\*390 mm (L\*W\*H)

### specification

Number of stations	4
Rotating speed of cylinder	the standard speed is (60±2) r/min.
Diameter of cylinder	82 mm (including rubber)
Nail hammer mass	(160±10) g
Thickness of the felt	3.0~3.2 mm
Working width of guide bar	125 mm
Distance between nail hammer and guide bar	45 mm

### Standard accessories and consumables

Felt  
Hammer  
Pins  
Tape Measure  
Sampling Plate

### Optional accessories and consumables

Standard sample Felt sleeve

### Standard

ASTM D3939  
GB/T 11047  
JIS L1058



## SmartCrock Crockmeter

SmartCrock is used to test the color fastness of textiles or leather under wet and dry rubbing conditions. It is a highly automated instrument. After installing the dry rubbing cloth, press the start button. And the rubbing head will descend for testing. It will raise when the test is finished. When you replace by the wet rubbing cloth, just shift the loading table left and right to start the wet rubbing color fastness test. If a test is not smooth, the rubbing table can be moved again for the third test. It is automatic and efficient. It saves 40% of the sampling and testing time by reducing manual influence on the test results.

# SmartCrock

## Crockmeter



- **Automatic stretching device for elastic fabrics, more accurate testing**

The patented sample clamping and stretching device solves the problem of wrinkles when testing knitted samples: it automatically stretches the samples to the same distance while clamping, avoiding wrinkles or overstretching of the samples and making the test more accurate and reproducible.

- **Wet and dry friction tests can be performed in a single test, 40% faster.**

Only one piece of sample is needed in direction of warp and weft, and through the innovative flexible platform, the dry and wet friction tests can be completed successively on the same piece of cloth, which saves sampling and loading time and greatly speeds up the test by 40%.

- **Smart Color Fastness to Rubbing Test**

The instrument connects to the SmarTexLab APP via IoT on a smartphone or computer. It then connects to ERP/LIMS through an API. The instrument can also connect directly to ERP/LIMS. Test orders and standards can be sent to the instrument. The sample information can be read by scanning the code. The program can be automatically selected and tested. After the test, a digital raw record will be created. It will include the test process, results, temperature, and humidity. This record will be uploaded to the system. It will be summarized with other tests to output a report. All relevant parties can view the report in real-time. The operator can remotely monitor the status of multiple tests. They can also modify the test requirements, get a reminder before the test ends, and stop or repeat the test. You can use online chat to get quick support from ChiuVention customer service. Also, receive reminders to calibrate, maintain, and replace consumables on the instrument. Lastly, perform OTA remote upgrades regularly.



**Power**

220/110V 50/60 Hz



**Weight**

23kg



**Dimension**

663\*173\*250 mm (L\*W\*H)

**The specification of SmartCrock**

Friction head	diameter 16 mm
Vertical pressure	9N +/- 10%
Friction stroke	104 mm

**Standard accessories**

- AATCC friction cloth
- Sandpaper
- Clamping sleeve
- Sampling plate

**Optional accessories and consumables**

- AATCC/ISO Friction Cloths
- AATCC/ISO stained gray card
- Sandpaper
- Rectangular test head with clamping ring
- Round clamping ring

**Standard**

ISO 105x12 (round friction head), AATCC 8, GB/T 3920 (round friction head), ISO 20433 Method C;

**Optional standard**

ISO 105xD02, AATCC 165, ISO 105x12 (rectangular friction head), GB/T 3920 (rectangular friction head)





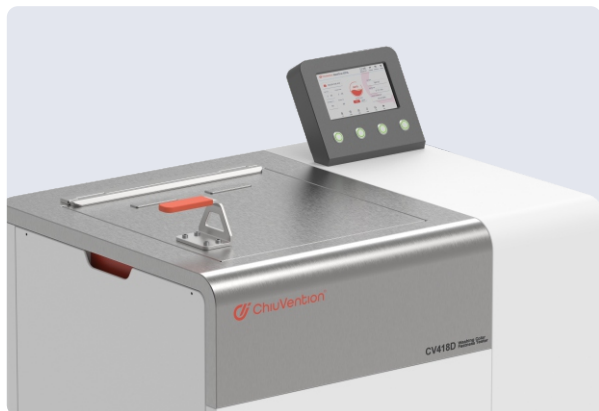
## WashTrue

### Washing Color Fastness Tester

WashTrue uses an intelligent temperature control algorithm. It ensures the washing color fastness test meets requirements and gives reliable results. A series of test operations can be done on the touch screen. They include selecting standards, parameters, time, and temperature. Also, you can add or drain water. The system is intelligent and efficient. After the test, the buzzer alarms automatically. Multi-safety design, and can be low noise and long time running. There are two different specifications of single and double cylinders. Double cylinder model, two cylinders independent control.

# WashTrue

## Washing Color Fastness Tester



### 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.

### Smart Color Fastness to Washing Test

The instrument connects to the SmarTexLab APP via IoT on a smartphone or computer. It then connects to ERP/LIMS through an API. The instrument can also connect directly to ERP/LIMS. Test orders and standards can be sent to the instrument. The sample information can be read by scanning the code. The program can be automatically selected and tested. After the test, a digital raw record will be created. It will include the test process, results, temperature, and humidity. This record will be uploaded to the system. It will be summarized with other tests to output a report. All relevant parties can view the report in real-time. The operator can remotely monitor the status of multiple tests. They can also modify the test requirements, get a reminder before the test ends, and stop or repeat the test. You can use online chat to get quick support from ChiuVention customer service. Also, receive reminders to calibrate, maintain, and replace consumables on the instrument. Lastly, perform OTA remote upgrades regularly.



#### Power

AC/220V/3N/50/60Hz 40A  
AC/380V/3N/50/60Hz 23A



#### Weight

150kg



#### Dimension

1060\*720\*860 mm(L\*W\*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	
Φ 6±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 Φ 6±0.5mm	1pc
Stainless steel sheet Φ 30±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



## WashTrue

### Washing Color Fastness Tester

WashTrue uses an intelligent temperature control algorithm. It ensures the washing color fastness test meets requirements and gives reliable results. A series of test operations can be done on the touch screen. They include selecting standards, parameters, time, and temperature. Also, you can add or drain water. The system is intelligent and efficient. After the test, the buzzer alarms automatically. Multi-safety design, and can be low noise and long time running. There are two different specifications of single and double cylinders. Double cylinder model, two cylinders independent control.

# WashTrue

## Washing Color Fastness Tester



**Washing Color Fastness Tester  
(Dual-cylinder Model)**

### 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.

### Dual-cylinder models and they are independently controlled.

It allows two sets of tests to be performed at the same time. For example, one cylinder can be used for routine washing color fastness tests, while the other can be used for tests at different temperatures, times, or chemical agent conditions.

### 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.

### Smart Color Fastness to Washing Test

The instrument connects to the SmarTexLab APP via IoT on a smartphone or computer. And the instrument can also connect directly to ERP/LIMS. Test orders and standards can be sent to the instrument. The sample information can be read by scanning the code. The program can be automatically selected and tested. The operator can remotely monitor the status of multiple tests. They can also modify the test requirements, get a reminder before the test ends, and stop or repeat the test. You can use online chat to get quick support from ChiuVention customer service. Also, receive reminders to calibrate, maintain, and replace consumables on the instrument. Lastly, perform OTA remote upgrades regularly.



#### Power

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

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



#### Weight

255kg



#### Dimension

1180\*780\*920 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	1200±50mL	12 pcs /12 pcs
Stainless steel ball		
Φ 6±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	AATCC sealing	12 pcs /12pcs
measuring cup	100ml	1pc

### Optional Accessories

Test steel cup,550±50mL,	1pc
Test steel cup,1200±50mL,	1pc
Stainless steel ball Φ 6±0.5mm	1pc
Stainless steel sheet Φ 30±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

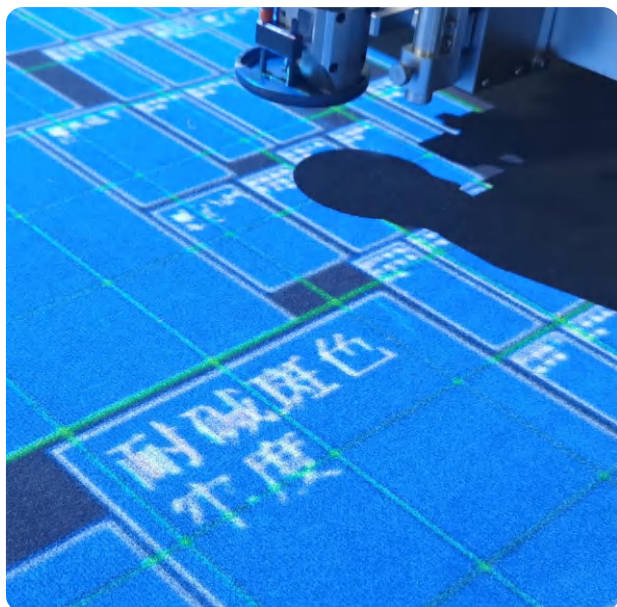


## SmartCut Fabric Sample Cutting System

The SmartCut can complete the sampling of fabrics within 3 minutes. It has smart sample-cutting software. Users can select various cutting patterns and sizes based on project or test standards. These can be saved as a template for easy future access. 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 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

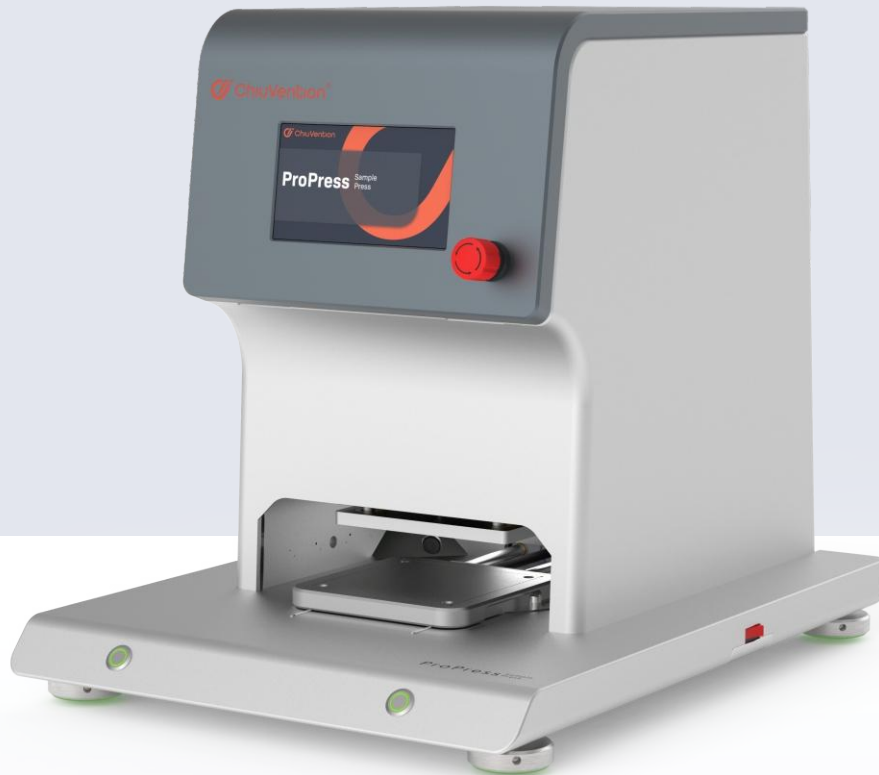
Cutting accuracy:	± 0.1 mm
Repeatability:	± 0.01 mm
Maximum cutting thickness:	7mm
Power supply:	220V/380V 50Hz-60Hz 20A-40A

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

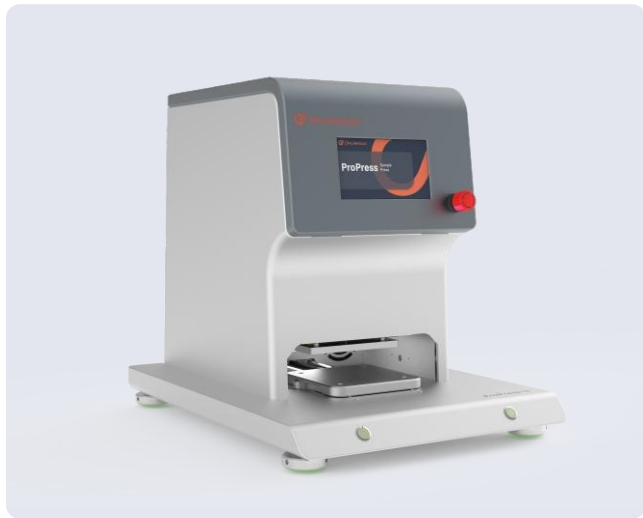
Abrasion & Pilling	GB/T4802、ISO12945、 JIS L1076、ASTM D4970
Tearing Strength	GB/T3917、ISO 13937、 JIS L1096、ASTM D751
Water Proof	GB/T4745、ISO 4920、AATCC 22、 ISO 9865、JIS L1092
Antistatic Test	GB/T12703、GB/T 22042、 EN 1149、ISO 6330
Core Suction Height	GB/T21655、JISL1907、ISO6330
Dimensional Stability	GB/T 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 is fully automatic. It punches and cuts the sample to be tested into 5x5mm pieces in under 8 seconds. It can cut and punch multiple layers of fabric at once. The ProPress is for cutting test samples from textiles, yarns, leathers, and plastics. The samples are used for tests of formaldehyde, pH, azo, heavy metals, and more. Stable operation, precise and fast cutting, highly consistent samples for reliable test results. Sample preparation is faster, saving more than 80% of sample preparation time for laboratories. Customizable knife die for punching and cutting different samples; Servo drive, quiet and friendly. Simple installation, no gas source and oil pressure can be used on site. Small size, can be directly placed on the worktable.

# 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.

- Customized dies are available for punching samples of different sizes.**

Different shapes and sizes of samples ( $\leq 80 \times 80$  mm) can be punched, and the customizable die can be 4mm  $\leq$  diameter  $\leq 113$ mm.

- Anti-static design, reducing the adsorbing of samples.**

The ProPress has an anti-static design to ensure that samples will not be adsorbed on the machine during the punching process.



**Power**  
220V 5A /110V 10A 50/60Hz 1200W



**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 1200W
Hoover	7.XCQ.002	110V 1200W
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 17593.1/2/3
Azo	FZ/T 01133 GB/T 17592








## SmartDispen Detergent Dispenser

The SmartDispen is a sample preparation device for soaping washing color fastness testing, which greatly improves the accuracy and efficiency of testing. It weighs soap flakes and dispenses water, then heats and stirs. And dispenses soap based on the sample bath ratio. Finally, it outputs a set number of steel beads. This prepares the soap for color fastness testing in one step. This reduces manual error and makes the test more reliable. The three-station design can prepare three different samples at once.

# SmartDispen

## Detergent Dispenser



	<b>Power</b> 220V 50HZ
	<b>Weight</b> 70kg
	<b>Dimension</b> 610*510*530 mm (L*W*H)

### The Specification of SmartDispen

Balance	weighing limit 600g, accuracy ± 0.01g
Soap tank	working volume 5000ml * 3
Single pumping volume of soap	2.5~1000ml
Liquid output accuracy	1ml±5%
Soap pumping speed	≤ 28ml /s (with steel balls)
Temperature control range	0~60°C, precision ±1°C
Grade of water	Tertiary water (purity)

- **Three stations can be operated independently to dispense different soaps.**

The three stations can be independently temperature controlled and they can dispense soap separately, so the sample preparation for washing color fastness testing can be completed within minutes. This greatly improves the efficiency of sample preparation and allows the textile laboratory to perform more wash color fastness tests per day.

- **More reliable testing**

High-precision balance for automatic weighing, automatic soap dispensing according to the strict bath ratio, and fully automatic soap flake stirring and dispensing, as well as precise temperature control and ball counting, all make sample preparation more accurate and testing more reliable.

- **Smart Sample Preparation Device**

The instrument connects to the SmarTexLab APP via IoT on a smartphone or computer. It then connects to ERP/LIMS through an API. The instrument can also connect directly to ERP/LIMS. Sample orders and standards can be sent to the instrument. The sample information can be read by scanning the code. The operator can remotely monitor the status of sample preparation. You can use online chat to get quick support from ChiuVention customer service. Also, receive reminders to calibrate, maintain, and replace consumables on the instrument. Lastly, perform OTA remote upgrades regularly.



## 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)

### Smart Sample Preparation Device For Wash Color Fastness Test

The instrument is connected via IoT to the SmarTexLab APP in the phone/PC. And The app can connect to ERP/LIMS via an API. Or, the instrument can connect directly to ERP/LIMS. You can get the sample preparation order and sample preparation process, sample preparation results, etc., from the system, and the system automatically summarize them into a sample preparation report. The report can be sent to SmarTexLab or ERP/LIMS. The relevant parties can view the report in real time. In SmarTexLab, You can chat with ChiuVention service staff for quick support. You'll get reminders that instruments need calibration, maintenance, and new consumables. Regular OTA remote upgrades are available.

### 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.

### 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.





## 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/T 13773.1, GB/T 13773.2, GB/T 24218.3

(The standards above are matched with: clamps by 25x25 mm, 25x50 mm, 25x75 mm)

## Optional fixture and standards

Clamps by 25x100 mm : ISO 9073-4 GB/T 3917.3

Clamps by 50x75 mm : ASTM D5587

Leather tearing fixture: ISO 3377-2

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

Yarn fixture: ISO 2062

Version A+: ISO 13937-2 (Sample 50 mm wide) ISO 13937-3

GB/T 3917.2 (Sample 50 mm wide) GB/T 3917.5

Clams by 25x200 mm: ISO 13937-4 ISO 4674-1 GB/T 3917.4

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

Version C+: ASTM D434, ASTM D1683 ISO 13936-1

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

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

## 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/T 13773.1, GB/T 13773.2, GB/T 24218.3

(The standards above are matched with: clamps by 25x25 mm, 25x50 mm, 25x75 mm)

## Optional fixture and standards

Clamps by 25x100 mm : ISO 9073-4 GB/T 3917.3

Clamps by 50x75 mm : ASTM D5587

Leather tearing fixture: ISO 3377-2

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

Yarn fixture: ISO 2062

Version A+: ISO 13937-2 (Sample 50 mm wide) ISO 13937-3

GB/T 3917.2 (Sample 50 mm wide) GB/T 3917.5

Clams by 25x200 mm: ISO 13937-4 ISO 4674-1 GB/T 3917.4

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

Version C+: ASTM D434, ASTM D1683 ISO 13936-1

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

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

## 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

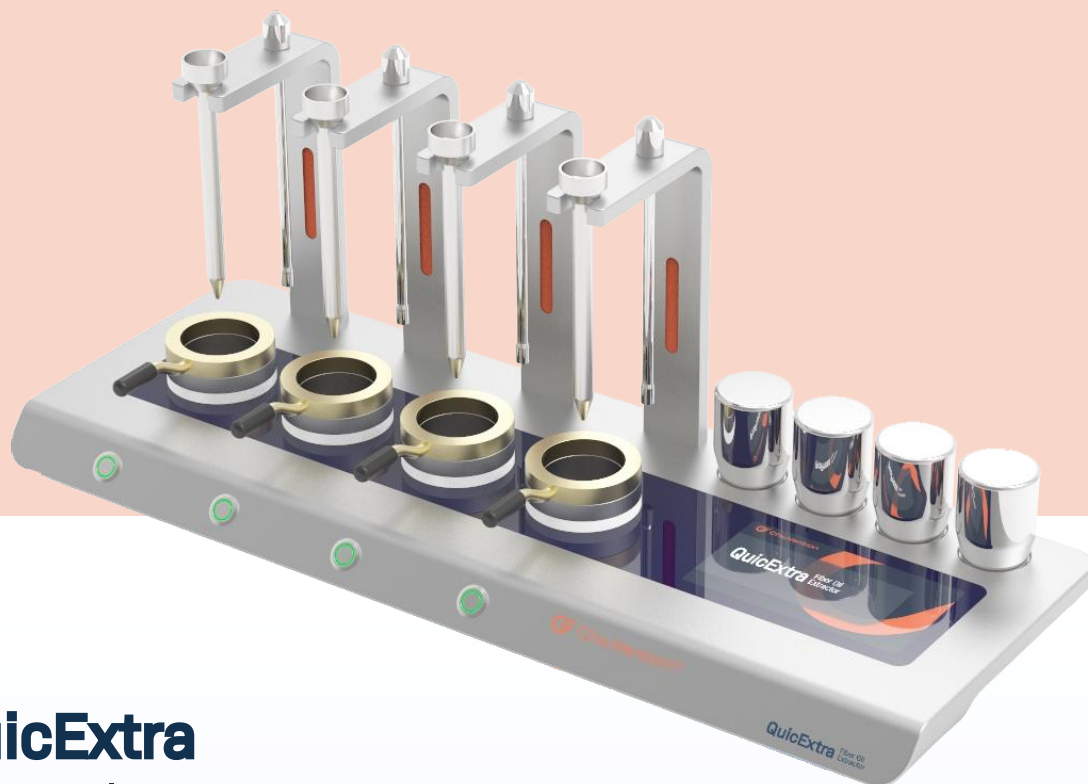
Display resolution of 1024 × 768 or more.

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.





## QuicExtra Fiber Oil Extractor

The QuicExtra Fiber Oil Extractor, uses the principle of solvent (e.g. petroleum ether, ether or other organic solvents) penetration and evaporation to dissolve the oils and fats in the textile fibers, thus detecting the oils and fats content of wool and synthetics samples. The 4-station design allows for fast and thorough extraction of oils and fats in less than 10 minutes, and the oil content is automatically calculated and the data will be uploaded to the system after confirmation.

# QuicExtra

## Fiber Oil Extractor



	<b>Power</b> 220V 50HZ
	<b>Weight</b> 20kg
	<b>Dimension</b> 720*255*290 mm (L*W*H)

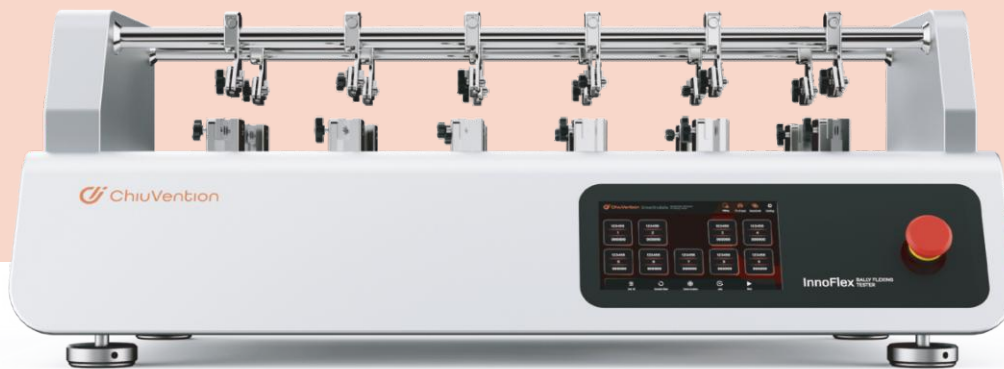
### The Specification of QuicExtra Fiber Oil Extractor

Quantity of workstations	4 workstations
Pressurization mode	heavy weight
Timing range	0-99min LED display
Temperature range of heating board	90°C-120°C LED display
Temperature control precision	±1°C
Applicable extraction solvents	petroleum ether, ethyl ether, dichloromethane, etc

### Standard

GB/T 6504-2017

- Fast extraction, high efficiency and labor saving**  
QuicExtra is based on the principle of automatic weight pressurization. It uses weights, so manual pressure is not needed. Each of the 4 stations has its own operation buttons. They complete the extraction of fiber oils and fats in less than 10 minutes.
- Thorough extraction and more accurately testing.**  
Adopting microcomputer temperature control, with good temperature uniformity. It ensures that the oil is extracted thoroughly and the test results are more accurate.
- Get the weight with one-click, calculate the oil content automatically and upload it.**  
Each working station is timed independently and the timing can be reminded by APP. With an optional smart balance, the weight of the sample and oil content can be obtained from the operation screen with one-click (if not equipped, the weight can be input manually), then the oil content can be calculated automatically and uploaded to the instrument system after confirmation.



## InnoFlex Bally Flexing Tester

The InnoFlex Bally Flexing Tester tests the flexing resistance of leather, cloth, and other materials. It uses advanced servo motors for accurate positioning. This ensures a stable test process and reliable results. You can select 12 stations. Choose single or multiple station modes. Each mode can be counted individually. You can test a variety of samples at the same time. Low noise operation, user-friendly.

# 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.

### 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.

### Smart Bally Flexing Test

The instrument connects to the SmarTexLab APP via IoT on a smartphone or computer. It then connects to ERP/LIMS through an API. The instrument can also connect directly to ERP/LIMS. Test orders and standards can be sent to the instrument. The sample information can be read by scanning the code. The program can be automatically selected and tested. After the test, a digital raw record will be created. It will include the test process, results, temperature, and humidity. This record will be uploaded to the system. It will be summarized with other tests to output a report. All relevant parties can view the report in real-time. The operator can remotely monitor the status of multiple tests. They can also modify the test requirements, get a reminder before the test ends, and stop or repeat the test. You can use online chat to get quick support from ChiuVention customer service. Also, receive reminders to calibrate, maintain, and replace consumables on the instrument. Lastly, perform OTA remote upgrades regularly.

### 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

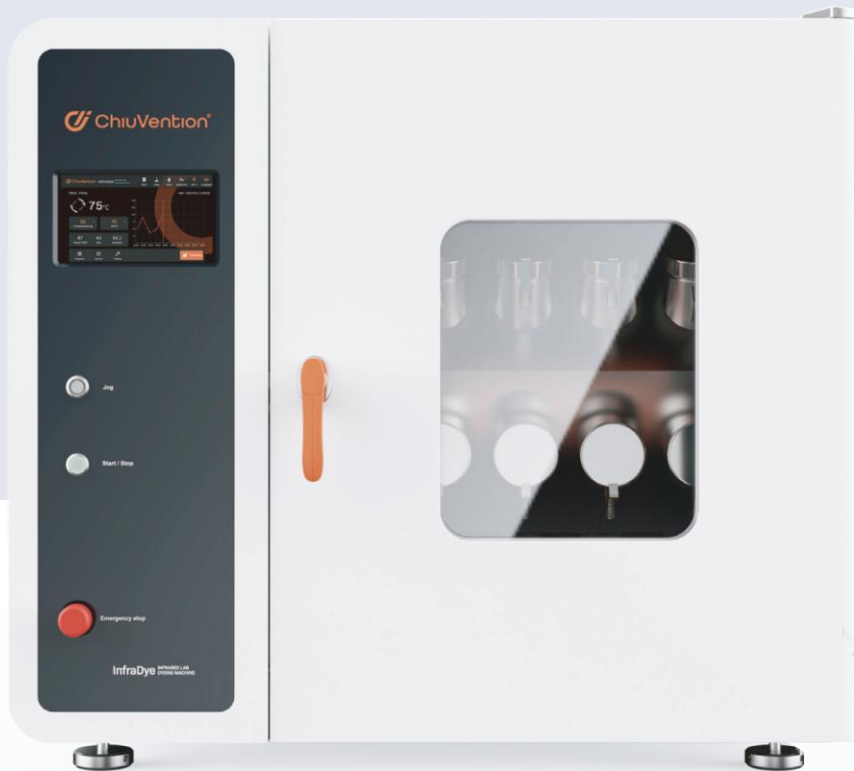
### Standards

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



### Optional standards

SATRA TM 55



## InfraDye Infrared Lab Dyeing Machine

The InfraDye quickly makes stained samples at a lower cost. It works by infrared heating principle. A smart temp control algorithm and a multi-cup design enable it to dye multiple solutions at once. It is stable, durable, and quiet. It has a temp calibration function and multiple safety protections. High quality components, durable.

# 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.
- 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.
- Smart Sample Dyeing Machine**  
 The instrument connects to the SmarTexLab APP via IoT on a smartphone or computer. It then connects to ERP/LIMS through an API. The instrument can also connect directly to ERP/LIMS. The sample information can be read by scanning the code. The operator can remotely monitor the status of sample dyeing. You can use online chat to get quick support from ChiuVention customer service. Also, receive reminders to calibrate, maintain, and replace consumables on the instrument. Lastly, perform OTA remote upgrades regularly.

- 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		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



## AtmoExplorer Temperature & Humidity Chamber

The AtmoExplorer tests materials in various environments. It checks their heat, cold, dryness, and humidity resistance. It is for testing the quality of products like electronics, appliances, cell phones, communications, instruments, vehicles, plastics, metals, food, chemicals, building materials, and medical, aerospace, and other products. The system excels at controlling temperature and humidity. It heats and cools quickly. It can also set different temperatures and humidity in different test sections. The test chamber has high-quality insulation and a humidifier. It uses a Japanese and French imported refrigeration system and parts. This ensures stable, durable operation. You can customize various sizes.

# 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  $100^{\circ}\text{C}$  within 30 minutes. It can also achieve cooling from room temperature to  $-20^{\circ}\text{C}$  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 L*W*H(mm)	Inner box size D*W*H(mm)	Power(KW)	Voltage / Frequency	Number of phases	Gross weight (kg)
CV340-80L	$-40^{\circ}\text{C}$ ~ $150^{\circ}\text{C}$ $-20^{\circ}\text{C}$ ~ $150^{\circ}\text{C}$	1250*700*1510	400*400*500	5.0KW 4.5KW	AC220V/50H	1 phase/3 wire	307
CV340-150L	$-40^{\circ}\text{C}$ ~ $150^{\circ}\text{C}$ $-20^{\circ}\text{C}$ ~ $150^{\circ}\text{C}$	1350*800*1610	500*500*600	5.0KW 4.5KW	AC220V/50H	1 phase/3 wire	367
CV340-225L	$-40^{\circ}\text{C}$ ~ $150^{\circ}\text{C}$ $-20^{\circ}\text{C}$ ~ $150^{\circ}\text{C}$	1350*970*1720	500*600*750	7.0KW 6.0KW	AC380V/50H	3 phase/5 wire	422
CV340-408L	$-40^{\circ}\text{C}$ ~ $150^{\circ}\text{C}$ $-20^{\circ}\text{C}$ ~ $150^{\circ}\text{C}$	1450*1080*1820	600*800*850	8.0KW 7.0KW	AC380V/50H	3 phase/5 wire	518
CV340-1000L	$-40^{\circ}\text{C}$ ~ $150^{\circ}\text{C}$ $-20^{\circ}\text{C}$ ~ $150^{\circ}\text{C}$	1850*1280*1970	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	$-20^{\circ}\text{C}$ ~ $+150^{\circ}\text{C}$ ( $-60^{\circ}\text{C}$ ~ $-40^{\circ}\text{C}$ ~ $+150^{\circ}\text{C}$ 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	$100^{\circ}\text{C}$ , within 30 minutes
Cooling time temperature down to	$-20^{\circ}\text{C}$ , within 60 minutes
Testable area	500*600*750mm (225L D*W*H)



# TEST SMART NOW

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