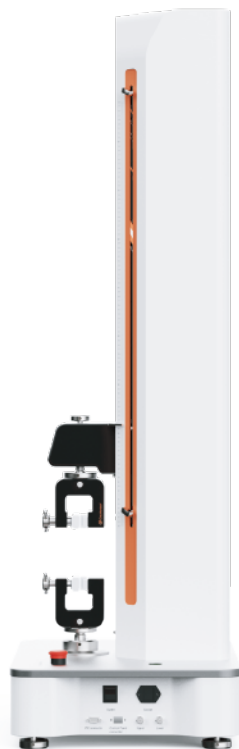# **SmartPull**
Tensile Tester

SmartPull tensile tester is mainly used for tension, compression, bending, tearing, shearing, peeling and top-breaking tests of textiles, leather and footwear, etc.

SmartPull
Tensile Tester

Power
230V 50/60Hz 5A

Weight
Single   90kg
Double   160kg

Dimension
Single 460*630*1470mm (D*W*H)
Double 600*830*1730mm (D*W*H)

Specifications

Testing capacity	single 250kg/double 1000kg
Test level	class1
Max travel	single 800mm/double 900mm (without fixture)
Travel accuracy	single 1%/double 0.5%
Travel speed	single 1 mm/min ~ 500mm/min; double1mm/min-1000mm/min
Speed accuracy	single 1 %/double 0.2%-1%
Test force range	0.2 % ~ 100 % FS
Force accuracy	≤1 %

Standard fixture and standards
Manual stretching fixture should be equipped with clips by
25x25mm 25x50mm 25x75mm
ISO 9073-3 ISO 13934-1 ISO 13934-2
ISO 13935-1 ISO 13935-2 ASTM D5034 ASTM D5035

Optional fixture and standards
The Pneumatic tension fixture & foot switch are equipped
with clips by 25 x 25 mm, 25 x 50 mm, 25x75mm
 (Optional 100 mm jaws)

U-shaped Fixture	ASTM D4964
Yarn Fixture	ISO2062
Bursting Fixture	ASTM D679 FZ/T 01030 GB/T 19976
Leather Tearing Fixture	ISO 3377-2

Standards of the optional tension fixture
ISO 9073-4 ISO 3377-1 ISO 13936-1 ISO 13936-2
ISO 13937-2 ISO 13937-3 ISO 13937-4 ISO 20932-1
ISO 4674-1 GB/T 3917.3 GB/T 3917.5 GB/T 3923.1

Accessories
Standard accessories: manual stretching jig, 25x25mm jaws,
25x50mm jaws, 25x75mm jaws,sample template,pins, manual,
power cord, communication cable, control panel, fuse

Optional accessories
pneumatic stretching jig, foot switch, bursting jig

- **Safety guarantee for the whole testing process**
  Equipped with intelligent and active displacement and torque alarm system, overload and emergency stop device, up and down travel limiting device, always keep 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 indicators.

- **Applicable up to a series of standards**
  Many standards and optional standards such as ISO3377 ISO 13935 ISO 13937 ISO 20932-1 ISO 4674 ASTM 5034 ASTM D4964 GB/T 3917.5 FZ/T 01030,etc.

- **Easy operation**
  Multi-functional pneumatic gripper, replace the clips to complete different tests, easy and quick. No need to replace the sensor when do tensile tests and top breaking tests.

- **Unique design**
  Unique appearance design combined with sense of technology, surface aluminum alloy hard oxidation treatment, durable.

- **User-friendly**
  Side cutting design, more user-friendly.

SmartFill
Liquid Filling Machine

SmartFill is a washing color fastness tester auxiliary equipment, comes with a weighing balance, automatic soap dispensing according to the bath ratio, automatic preheating soap, automatic counting of steel beads, then the soap liquid and steel beads will achieve simultaneous output, at the same time,it is equipped with automatic soap insulation function,you can do the washing color fastness test without waiting. SmartFill can greatly enhance the efficiency of the test, speed up the order preparation process of textile enterprises, thereby enhancing economic efficiency.

SmartFill
Liquid Filling Machine

Specifications

Balance weighing limit	600g, accuracy ± 0.01g
Soap tank	working volume 6500ml
Soap single pumping volume	2.5~1000ml
liquid output accuracy	±5%
Soap pumping speed	≤ 28ml/s
Temperature control range	0~65°C, precision ±1°C
Steel ball filling speed	10pcs/s

Power
230V 50~60Hz 6.5A

Weight
45 kg

Dimension
500x500x520mm (D*W*H)

- **One-step operation, save time and effort**
  Sample weighing, soap dispensing according to the bath ratio, steel ball counting, automatic heating and heat preservation, etc, all in one step.

- **Smart instruments**
  Equipped with the Internet of Things, the operator can set the bath ratio and soap temperature on the cell phone and make an appointment to refill the heating. The brand can also monitor and trace the supplier's laboratory tests online through the cell phone.

- **Speed up testing and shorten the order cycle**
  Improve the washing color fastness test efficiency greatly, to help companies speed up the corresponding order preparation process, higher economic efficiency.

- **More accurate testing**
  A balance of one hundredth high-precision to weigh the sample, the soap is released strictly according to the bath ratio, accurate to 1 ml, a significant increase in accuracy than manual operation, so that each test is accurate and reliable.

- **Well-known brands are in using**
  Anta supply chain chose SmartFill, more quickly and efficiently mastered the garment color fastness data, so that corporate brand and quality management became more scientific.

AirFicient
Air Permeability Tester

The AirFicient is suitable for a variety of textiles including technical fabrics, non-woven fabrics and other breathable products such as sponges and paper and other materials for air permeability testing. The principle is that the air passes vertically through the fabric, forming a certain pressure difference between the front and back sides of the fabric, measuring the amount of air flowing through the fabric under a certain pressure difference, thus obtaining the air permeability value.

AirFicient
Air Permeability Tester

⚡	**Power**	230V 50/60Hz 8A
🏋	**Weight**	125 kg
📏	**Dimension**	970*400*970mm (D*W*H)

Specifications

|	
Measurement units	mm/s m/s l/m²/s ft³/min/ft² cfm cm³/s/cm² l/s/cm² l/m²/min l/dm²/min l/min m³/min dm³/s m³/s/m² m³/min/m² m³/h/m² ft³/s/ft²
Test Mode	Automatic
Test head	20 cm² (standard)
Test pressure	10 ~ 2,500 Pa
Air velocity	0.6 ~ 10,000 mm/s (20 cm²)
Maximum sample thickness	0 ~ 10 mm
Testing Accuracy	<+/-2%
Optional test heads	5 cm², 25 cm², 38 cm², 50 cm², 100 cm²

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

- **Accurate and fast testing, easy access to test results**
  Innovative test model with maintenance-free, non-depleting range conversion components, high repeatability of test results and high reliability.

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

- **Smart human-computer interaction interface**
  Guides the operation test, simple and easy to get started, no learning cost.

- **The test standards are set in the program**
  One key to reach the test standard in need, fast and efficient.

- **Automatic identification of test fixture heads**
  That applicable to different ranges. Can be set arbitrarily different national standard parameters, units, test results without conversion.

- **High-quality core components**
  Equipped with pressure sensors from international brands, to ensure the accuracy of test data.
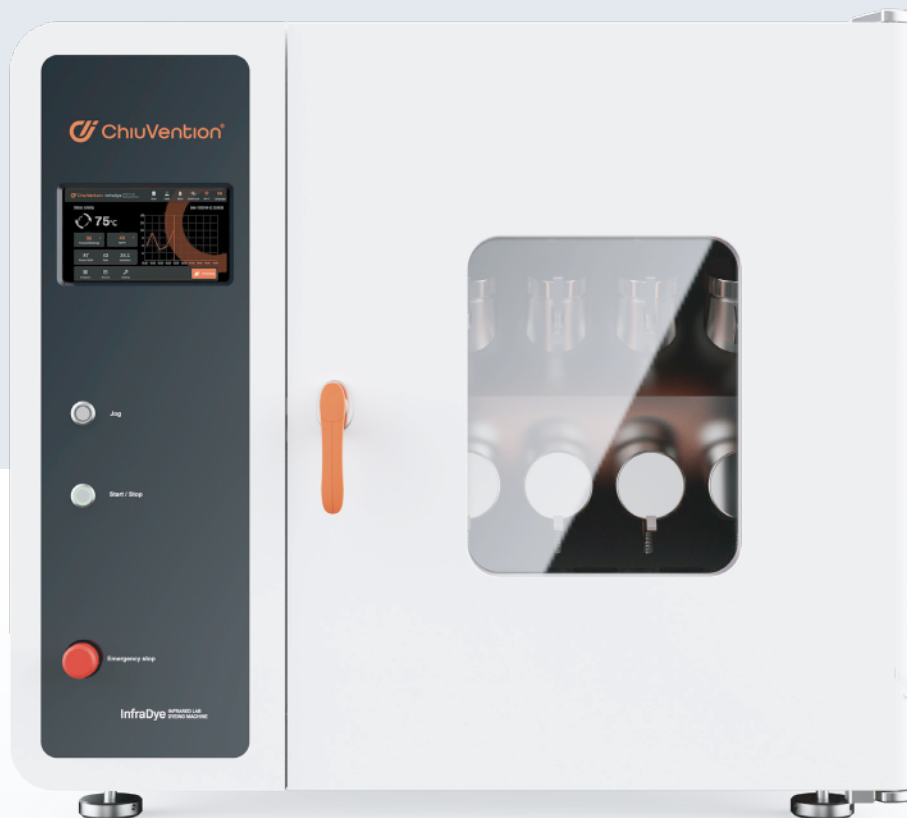
InfraDye
Infrared Lab Dyeing Machine

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

InfraDye
Infrared Lab Dyeing Machine

- **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
145 kg

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

- **Smart temperature control algorithm**
  Achieving different test temperatures, suitable for all kinds of dyeing with room temperature and high temperature.

- **Multiple dyeing solutions**
  Can be realized at one time: different specimens can be dyed in different cups.

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

- **User-friendly, convenient and efficient**
  Microcomputer control, simple operation, automatically retain the current data in case of power failure, the running process can be edited, and the buzzer automatically alerts after the test is completed.

- **Stable, durable and noiseless**
  The transmission mechanism is upgraded to rotary operation, which is more stable, more durable and noiseless.

- **Multiple safety protection**
  Such as over-temperature alarm function and automatic stop of rotating cup holder when the door is mistakenly opened.

- **Temperature calibration function**
  Can avoid the temperature differences caused by the aging of the probe.

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 Isothermal state	± 0.5°C/min
Temperature control mode	optimized automatic control
Rotational speed	0 ~ 50 rpm (adjustable)

Accessories

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

Optional Accessories
Heating tube

ChiuVention

AtmoExplorer
Temperature &
Humidity Chamber

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

AtmoExplorer
Temperature & Humidity Chamber

- **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 shutdown protection.

- **Various sizes can be customized**
  Such as 80L, 150L, 225L, 408L, 800L, 1000L

⚡	**Power** 380V 50HZ 20A 3∮4 wire
🏋	**Weight** 295kg
📏	**Dimension** 225L 1330*940*1670mm (D*W*H)

- **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: ±0.5°C; ±3%RH
  Temperature and humidity uniformity: ±2°C; ±3.0%RH

- **Achieve heating and cooling quickly**
  When unloaded, the AtmoExplorer can achieve heating from room temperature to 100°C within 30 minutes, It can also achieve cooling from room temperature to -20°C within 60 minutes.

- **Intuitive and practical screen, easy to operate**
  AtmoExplorer has a 7-inch large touch screen that displays information in both Chinese and English. The set values (SV) and perform values (PV) of temperature and humidity are displayed directly, as well as the currently executing program number, segment information, remaining time, and number of cycles.

- **Stable operation, originated from high-quality insulation materials and humidifiers**
  The heating element is made of spring-type nickel-chromium wire, and the humidifier is a UL-shaped humidifier in the form of stainless steel electric steam generation.

Specifications

Temperature range	-20°C~+150°C
Humidity range	20-98%RH
Temperature and humidity control accuracy	±0.5°C; ±3%RH
Temperature and humidity distribution uniformity	±2°C; ±3%RH
Heating time temperature to	100°C, within 30 minutes
Cooling time temperature down to	-20°C, within 60 minutes
Testable area	500*750*600mm (D*W*H)

Controller specifications

Accuracy temperature	±0.1°C + 1digit
humidity	±1%RH + 1digit
Degree of Reolution	temperature ±0.1°C, humidity ±0.1%RH
Temperature slope	0.1~9.9 can be set

- Display the current program number, number of segments, remaining time and number of laps.

- Temperature and humidity program setting value is displayed in a circular curve, with instant display of program curve execution function.

- Separate program editing screen, at least 4 temperature and time steps can be input on each page.

ChiuVention

ElmenGuide
Elmendorf Tear Tester

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

It is mainly suitable for woven fabrics, also for other textiles produced by other technologies, such as non-woven fabrics. However, it is not suitable for knitted fabrics, woven elastic fabrics, and fabrics in which the tearing direction will change during testing.

ElmenGuide
Elmendorf Tear Tester

Power
100~245V 50/60Hz 3A

Weight
70 kg

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

- **The innovative balance pendulum plate design, achieves a higher level of testing accuracy**
  The pendulum arm of ElmenGuide is specially designed, and the center of gravity of the entire pendulum arm coincides with the rotation center when no weights are attached. This results in higher accuracy and reliability of the equipment.

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

- **Automatic recognition of weights**
  The machine can automatically recognize the weight attached and adjust to the corresponding range.

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

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

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, 8N
Calibration weight b	1 pc, 16N
Calibration weight c	1 pc, 32N
Calibration weight d	1 pc, 64N
Calibration weight e	1 pc, 128N

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

HydroBurst
Bursting Strength Tester

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

HydroBurst
Bursting Strength Tester

- **Smart identification system for testing cups**
  When changing the testing cup, the system can automatically identify the current testing cup model and switch the testing parameters automatically, which also greatly improves work efficiency.
  In addition, the mechanical shell of HydroBurst is made of steel plate with electrostatic spraying process, which makes the appearance generous. The mechanical interior is mainly composed of high-quality lightweight all-aluminum structure, which greatly reduces the weight of the whole machine.

Power
230V 50/60Hz 5A

Weight
130 kg

Dimension
500*830*660mm (D*W*H)

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

- **Smooth operation, precise and durable**
  The hydraulic system adopts full servo control and precise screw drive, providing smooth operation, precise and durable transmission, and low noise.

- **High-precision testing**
  The pressure measurement part is equipped with a high-precision pressure sensor, with accuracy up to 0.2, which means the deviation is 0.2% of the maximum range.

- **Longer service life of sensors**
  HydroBurst is equipped with the Panasonic laser displacement sensors which have no rod and are easy to replace testing cups, thus providing sensors with better protection and reducing the risk of damage compared to traditional rod-type sensors.

- **Automatic testing improves efficiency.**
  During the testing process, the protective cover automatically descends, and then the testing cup is pressed for testing. When the test is completed, the testing cup automatically lifts, and the protective cover automatically ascends. The testing process is automated, without manual operation, which improves work efficiency and reduces operation risks.

Specifications

Testing mode	fixed-speed bursting, fixed-pressure bursting, fixed-expansion bursting, and fixed-time bursting.
Measurement range	0-10 MPa ± 1%
Testing rate	50-500 ml/min
Hydraulic medium	glycerin
Testing cup size	7.310 cm² (diameter: 30.5 mm ± 0.2 mm) 10 cm² (diameter: 35.7 mm ± 0.2 mm) 50 cm² (diameter: 79.8 mm ± 0.2 mm) 100 cm² (diameter: 112.8 mm ± 0.2 mm)
Maximum expansion height	70 mm ± 1 mm
Operating environment	temperature: 20°C ± 5°C, humidity: 50-70%RH
Installation conditions	air supply pressure of 6~8 bar (ensure that the air is clean and dry)

Standard
GB/T7742.1-2005   ISO13938-1-2019
ASTM D3786/D3786M-18

Smartindale
Martindale Abrasion & Pilling Tester

The Smartindale Martindale Abrasion&Pilling Tester is designed to determine the abrasion and pilling of various textiles.

A circular specimen is placed on the grinding head and under the prescribed pressure, in planar contact with a standard woolen abrasive fixed on the grinding table and rubbed in a multi-directional translation according to the LISSAJOUS trajectory (a composite trajectory of two mutually perpendicular resonant motions) until the specimen is ground to a prescribed number of times and the instrument stops automatically. Then the degree of abrasion or pilling is compared with the standard parameters and the result is obtained. It can test the abrasion resistance and pilling performance of cotton, hemp, silk woven fabrics and other textiles, membrane materials, knitted fabrics, woolen textiles, artificial leather, synthetic leather, gloves, labor protection materials, etc.

Smartindale
Martindale Abrasion & Pilling Tester

⚡ **Power**
230V 50/60Hz 5A

🏋 **Weight**
90kg

📏 **Dimension**
510*850*300mm (D*W*H)

- **The original digital drive , achieve a higher level of test accuracy**
  Smartindale replaced the traditional analog drive with a digital drive, an exclusive innovation in the industry, the combination of dual servo motors, microcontroller, embedded, mathematical model, point-to-point drive, etc., single point directly generated LISSAJOUS, with higher precision and reliability of the equipment.

- **Calibration-free**
  The dual action of servo driver and position sensor allows the instrument to continuously achieve accurate testing.

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

- **One-click testing modes shifting**
  Compared to conventional Martindale, with the Smartindale, you don't need to remove the top plate and change the pins, just click one key of the screen to switch the testing modes from abrasion to pilling (e.g. straight line mode, large Lissajous figure, small Lissajous figure).

- **Ergonomic design**
  The moving guide plate can be operated by one hand and automatically closes, with anti-collision function, more friendly to testers.

- **Reliable Test**
  The excellent manufacturing accuracy of machining and assembly makes the abrading table and specimen holder are highly parallel to each other during running, and the specimen holder has a small runout to the surface of the abrading table (less than 0.05mm), which is more conducive to obtaining reliable test results.

Specifications

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

Accessories

Fuse tube	2 pcs	
Foam wool	9 pcs Ø38mm	
Wool felt	18 pcs Ø90mm,Ø140mm	
Wool abrasive	9 pcs Ø140mm	
Sampling plate	3 pcs Ø38mm, Ø90mm, Ø140mm	
Sampler	1 pc for pilling test	
Sampler	1 pc for abrasion resistance test	
Press	1 pc Ø126mm, 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	9 pcs for pilling test	
Test pen	1 pc	
Connection shaft	9 pcs for pilling test	
Connection shaft	9 pcs for abrasion test	
Stainless steel ring	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 Ø140mm
SM26 woven wool felt	1 box 24 pcs/box Ø90 mm
SM28 polyurethane ether foam	1box 250 X 200mm/pc, 25pcs/box

Standards

ISO 12945-2-2020 ISO12947-2-2016 ISO12947-1-1998
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 Standard

BS EN 388-2016+A1-2018 SATRATM31 A/B PUMA
BS EN 16094-2012 ISO 20344-2021 Item 6.12
BS EN 13520-2002 ISO 5470-2-2021

InnoFlex
Bally Flexing
Tester

The InnoFlex is used to test the flexing resistance of leather, cloth and other materials by folded back and forth, using one side of the specimen as the inner side, the other side as the outer side to be bent back and forth until the specimen damage occurs or bending a certain number of times to see the degree of damage to determine the specimen flexing strength.

InnoFlex
Bally Flexing Tester

Power
220V 50HZ～60HZ 6.5A

Weight
55 kg

Dimension
850x490x287mm (D*W*H)

- **Accurate Test**
  Microcomputer program control, advanced servo motor to achieve accurate positioning, automatic return to original position, stable testing process, accurate and reliable results.

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

- **Efficient and practical**
  12 stations can be selected, you can choose single station/multi-station mode, each mode can be counted separately, and multiple samples can be tested at the same time.

- **Durable**
  NSK bearings from Japan, made of stainless steel precision mold casting, product appearance with hard-anodized treatment, to achieve longer service life.

- **Less noise, more friendly**
  The actual noise is only 60 decibels, much lower than other similar products on the market.

- **Humanized design**
  Ergonomic operation interface, automatic data retention in power failure, the operational data can be edited.

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 ISO20344-2011

SmartShrink
Rate Tester

The SmartShrink Rate Tester uses visual algorithms to automatically capture warp and weft data of textiles before and after textile shrinkage rates testing. It then automatically calculates the shrinkage rate and generates corresponding data, which is recorded in the software. The process involves scanning and identifying the QR code on the textile product, generating corresponding data in the software, and saving it. This greatly improves the efficiency of shrinkage rate testing in textile factories and reduces human testing errors, ensuring accurate and reliable test results.

SmartShrink
Rate Tester

Specifications

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.

An additional computer is required (optional)

Operating system: Windows 10/11
Processor: Intel Core i3 or above
Memory: 16GB DDR4 or above
Hard disk: 500GB SATA, solid state drive recommended
Graphics card: discrete graphics card 1G or more memory
Expansion interface: USB3.0 or USB3.1

Standards

AATCC 35   AATCC150   AATCC 179 Method 1   GB/T8630
GB/T 8628   ISO 3759

- **Wide range of applications**
  It is suitable for knitted/woven fabrics, non-woven, laminated fabrics and elastic woven fabrics.

- **Fast and accurate calculation, easy to operate**
  Self-developed visual detection algorithms and detection systems, with high detection speed and accuracy.

- High-definition industrial camera with a Sony IMX183 sensor, with about 20 million pixels and higher imaging quality.

- Require an external computer for operation，and the SmartShrink is equipped wtih a built-in scanning system, which can automatically identify sample number and QR codes.

- **Equipped with automatic data saving function**
  The sam-ple number, sample image, test data and related data all can be automatically saved. Test data can be exported with one click.

- **User friendly**
  High-brightness LED illumination power, with software dimming and no flicker, soft light that is safe for the eyes. The full-aluminum body of the SmartShrink , presents simple and elegant appearance, and this machine is popular by high integration and easy operation.

SmartDry
Rate Tester

SmartDry Rate Tester is an instrument that measures the drying rate of textile by simulating the process of human sweating and monitoring the drying process of liquid on the fabric.

The fabric is placed on top of a heating plate at a constant temperature of 37°(99°F), a certain amount of water is dripped in the center of the heating plate, and a wind box is on top of the fabric to dry the sample. The change of fabric temperature is tested by infrared temperature sensor to determine whether the drying is finished, and the drying speed is obtained according to the test drying time.

SmartDry
Rate Tester

Power
AC100-245V 50/60Hz 3A

Weight
kg

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

Specifications

Wind box	can produce airflow of 0.5-3.5m/s
Heater plate	305mm x 305mm±1mm
Flexible heating plate	305mm x 305mm±1mm
Heat-insulating cork board	305mm x 305mm±1mm
Metal pressure bar	150mm x 40mmx2mm±1mm
Heating plate temperature	25-40°C±0.5°C (with overheat protection)
Accuracy	0.5-3.5m/s±0.1m/s
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
AATCC201

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

- **Efficient and convenient**
  High precision temperature sensor, wind speed sensor, and precision drip device can automatically complete the test of fabric drying time, drying rate and a series of data analysis work.

- Original parallel cross-flow wind box, so that the wind speed is more uniform, more smooth, more restore the actual evaporation process, more reliable test results.

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

TEST SMART NOW!

The ChiuVention SmartTexLab system integrates smart textile testing instruments and smart devices of sample preparation through the latest technologies, such as IoT and RFID, AI, Visual Inspection, etc. In this way, textile labs can realize automatic sample identification, automatic sample cutting, and the test results of the same sample in each instrument will be sent to the central computer, then you can obtain a summarized report after the tests are completed, and the report can be quickly shared to the quality inspection department or customers online.

The paperless process enables to save on personnel and material costs for the laboratory. In addition, by significantly reducing the time it takes from sample collection to report output, the SmartTexLab can shorten the delivery time for textile and clothing factories, creating even greater economic benefits.

SmarTexLab Textile Testing VS Conventional Textile Testing

SmarTexLab Textile Testing		Conventional Textile Testing
The test requirements are all collected online and received by the smart cutting machine.	**The collection of test requirements**	Fill out the test requirements manually, input them into the computer, and then print out some forms and corresponding labels.
The cutting machine automatically cuts the fabric into samples of different sizes and put them into the RFID basket that can identify and track the samples.	**Cutting and identification of samples**	Several samples were manually cut and labeled separately for differentiation.
By scanning the sample bar code or placing an RFID basket in the induction area, all information are automatically identified and recorded, then the instruments will be automatically set according to the test requirements.	**Recording of test elements**	You need to manually record the test elements, such as environment, temperature and humidity, test material information, test method, etc., and set the instruments according to the test requirements, start the test.
Start test and just leave, the operator can monitor the test from app, until mobile phone alarms to re-test or stop the tests.	**Monitoring of the testing process**	The operators have to stay with the instruments to monitor the test status and wait for the ending of tests.
The system automatically calculates the test results, just confirm them.	**Calculation of test results**	Manually record and calculate the test results.
Only need to confirm the report results and share them to all parties concerned in 1 minute.	**Summary of test results and sharing**	1 person is in charge of grouping a series of test reports and the other needs to input all the info into computer and print out them, then send to all parties concerned. Time : 20 minutes
All the test results and pictures even videos are saved in the computer that eases the big data analysis.	**Analysis of big data**	The test results are recorded on the papers. It is very hard to do big data analysis.

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