About TESTEX

Everybody wears clothes, but it is only us in the manufacturing, testing and research industry that really understand the full story of clothing.

From fiber to fabric, and fabric to garments, every stage of the journey needs to be tested, to ensure the right standards of safety and quality are met.

Whether you need to test the abrasion resistance of fabric, or the fire resistance of clothing, we are dedicated to being your lifelong partners in providing the quality machines to do the job.

TESTEX brings you quality and safe textiles!

TESTEX offers a wide range of testing equipment for textile industrial:

Cotton, wool fiber…

Yarn

Fabric, non-woven…

Leather

Zipper, Button, Velcro…

Gloves, Socks

Carpet, towel…

Garment, shoes, bags

Why TESTEX

TESTEX is a professional manufacturer of textile testing equipment since 2008, set its factory in Guangdong province of China, during our great efforts on the innovation and quality controls on our testing machines, TESTEX is well-known all over the world, especially in western countries.

Our customers, such as the international laboratories SGS, Intertek, TUV, BV, and the retailers such as Under Armour, H & M, Clariant..., are mostly satisfied with our:

High quality standards

All the machines meet most of the standards, such as BS, EN, ISO, AATCC, ASTM, GB, and retailers standards M & S, NEXT…

Every machine is subject to complete testing to ensure the highest possible performance and longer life, and a complete calibration to the standards above.

Fast delivery time

The most regular machines are in ready stock, they are well-tested and calibrated before shipping

Flexibility

Our team can work closely with you to develop new testing machines for your unique requirements

Competitive price

With the low laboring cost in China, and the huge production ensures lower costing, TESTEX offers you reasonable prices with high quality

Prompt after sales service

- 7 days x 24 hours online response
- On-site support team if required
- 18-months-warranty, free spare parts for 24 months

Professional team members

- The founder of TESTEX is teaching in university
- Team members are training and studying all the time

Our Culture

At TESTEX, we are guided in our daily work by a commitment to our Mission, Vision and Values.

- Vision
  To be the innovative leader of testing equipment and testing solutions.

- Mission
  Helping our customers to be more successful by providing advanced and reliable testing equipment.

- Values
  Serving customers and staff, perfection, innovation, Integrity, accountability.

Our Values

- Serving customers and staff
  We are partners with our customers and are committed to their success, thus helping our staff success in work and life.

- Integrity
  We honor our commitment and uphold the highest standards of honesty.

- Accountability
  We are empowered to make decisions and accept responsibility for our performance.

- Perfection
  We aim at perfection in everything, every detail.

- Innovation
  We thrive on delivering extraordinary solutions to our customers for their most complex challenges.

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Fiber testing instruments

They are used for fiber,

Such as Cotton, Wool, Silk, Jute, Man-made fiber…

To determine the physical properties of many kinds of fiber,

Such as fiber content, fiber fineness, fiber length, and tension strength…

TB100 Fiber Cutter

Fiber Cutter, used to cut the fiber at certain lengths for testing linear density.

Specifications
- Knife-edge width 10mm, 20mm, 25mm, 30mm and 40mm.
- Knife-edge length 45mm.

Standards GB/T14335, GB/T14336, GB/T6100
Weight 5 Kg
Dimensions 270 x 270 x 300 mm (L x W x H)

TB110 Fiber Microtome

Fiber Microtome, used to sample thin cross-sections of all kinds of fiber in order to facilitate their tissue structure observation by microscope.

Specifications
- Section area 3 x 0.8mm2
- Min. section thickness 20 um

Standards GB/T 10685, ISO137, AATCC 20A
Weight 1 Kg
Dimensions 92 x 25 x 35 mm (L x W x H)

TB300 Fiber Fineness & Content Analysis System

Fiber Fineness & Content Analysis System, used to determine the fineness of fiber and analyze the content and surface feature of animal fiber, vegetable fiber and mineral fiber, such as cotton, wool, man-made fiber, etc.

This fiber analyzer is efficient, its kernel is a special soft package, and it is based on the digital image technology and interactive operation. Operator selects the objects, and then the system measures fiber and gets the statistic result automatically.

To use, pick a bundle of fiber and cut a segment about 100um at the middle position, then submerge the fiber segment in one or two drops of paraffin oil and ensure evenly covered. Next, place the sample on the telescope stage - the magnified image is projected on the CCD camera and digitized in computer memory. Then the digital image of sample can be processed and measured.

Functions (Optional orders)

Simple diameter measurement

- Automatic diameter measurement
- Fiber content test
- Abnormality-transect fiber measurement

Specifications
- Industrial pick-up camera, microscope, specialized test software.
- Operating mode: Manual, Automatic, Multiple-spot measurement
- Measurement range 1~ 2000μm
- Measurement accuracy 0.1μm

Standards
AATCC 20/20A, ISO 137, ISO 17751, IWTO-8-97, IWTO-47-00, FZ/T01057.3, GB/T 10685

Power 220 /110 V 50/60 Hz
Weight 40 Kg
Dimensions 600 x 400 x 600 mm (L x W x H)

TB306 Fiber Length Tester

Fiber Length Tester, used to measure the length of fiber. Method of determining wool fibre length distribution of fibres from yarns or fabrics using a single fibre length measuring machine

The fiber length tester is improved with the following technologies: uses tension load to stop rotation axis more timely and more secure; with automatic pneumatic clamp instead of tweezers, the operation is more convenient quickly; variable speed stepper motor controls rotation axis, more precise, length measurement accuracy at low speed is 0.5mm; the computer controls the whole process of measurement, and the fiber length distribution statistics, and all data can be exported and in-depth analysis.

Specifications

- Fiber length measurement range 5~300 mm
- Length measuring accuracy 0.5 mm
- Pneumatic clamp
- Max. power <150W
- Tension accuracy 0.1cN
- Working temperature Room Temp.
- R.H. 30%~85%

Standards IWTO-DRAFT-TM-5-97, ISO6989

Power 220 /110 V 50/60 Hz

Weight 60 Kg

Dimensions 600 x 460 x 1300 mm (L x W x H)

TB310 Automatic Micronaire Tester

Automatic Micronaire Tester, used to determine the Micronaire value of cotton fiber. CPU tech has been adapted to give digital readings and make adjustment of Micronaire value (and weight value as well) more easy and convenient. The sampling range is bigger, operation more efficient, and test results more accurate. The Micronaire value and cotton grade can be displayed directly on the tester, the test data also can be displayed in the PC when the machine is connected to the computer.

Specifications

- Micronaire value range 2.5-6.5 micronaire value (2.9~6.5 for weight correction)
- Accuracy +/- 0.05 micronaire value (the best in the world)
- Specimen weight 7.5~8.5g
- Volume 0.26 g/cm3
- High test speed a few seconds for one sample

Standards ISO2403, GB/T6498, GB1103

Power 220 /110 V 50/60 Hz

Weight 15 Kg

Dimensions 220 x 250 x 300 mm (L x W x H)

TB311B Automatic Wool Fineness Tester

Automatic Wool Fineness Tester, uses an Airflow method to test the Wool Fineness with the widest measurement range from 12 ~ 50um.Test results are directly displayed on the LCD screen, and can also be connected with the computer via USB port, with LABtest software offered, to analyze and print out the perfect test report. This simple and fast test operation is widely used in wool research, wool purchase inspection, wool production and trading, etc.

Specifications

- Measuring range 12 ~ 50um (the widest in the world)
- Measuring accuracy 0.1um (standard lab environment)
- Test time 15 seconds on average
- Sample mass 2.5 ± 0.004g
- PC communication USB port connection
- Output test report via computer

Optional order

WOOLLAB standard wool

Standards ISO1136, BS3183, ASTM D1282, IWTO-6-90 / 28-98, GB/T 11603

Power 220 /110 V 50/60 Hz

Weight 30 Kg

Dimensions 520 x 280 x 300 mm (L x W x H)

TB320 Photograph Fiber Length Tester

Photograph Fiber Length Tester, to measure the length of cotton fiber by photo-electricity technology, is mainly used in cotton inspection and purchasing for cotton spinning factories.

Specifications

- Length range 25 ~ 31mm, resolution 0.1mm
- Weight of each measuring 350mg
- Accuracy +/- 0.5mm

Power 220 V 50 Hz
Weight 16 Kg
Dimensions 380 x 185 x 280 mm (L x W x H)

TB380 Rapid Oil Extraction Apparatus

Rapid Oil Extraction Apparatus, to determine the oil or finish content of wool or synthetic samples by solvent percolation and evaporation within 15 minutes. Suitable for all natural and synthetic fibers, yarn or fabric

Specifications

- Temperature range 60oC-220oC
- Sample weight for each testing 2g x 3
- Extraction reagent dosage 20ml x 3
- Heating power 300 W
- Extraction time 20min ~ 230min
- Work station 3

Standards WIRA Test Method No.5, GB/T6504, GB6977, FZ/T20002
Power 220 /110 V 50/60 Hz
Weight 40 Kg
Dimensions 475 x 360 x 660mm (L x W x H)

TB400C Single Fiber Strength Tester

Single Fiber Strength Tester, suiting to test the tension strength and elongation of chemical fiber, cotton, wool, ramie, silk, glass fiber, fine metallic thread, etc.

Features

- Including touch panel, computer operating software (All in English)
- Real-time display testing result and settings
- Force unit: N, Kgf, lb, in, cN
- High accuracy and fast response;
- Easy to load and unload specimen;

Specifications

- The maximum load test 100cN, 300cN, 500cN, 1000cN
- Load measuring accuracy 0.02%(F.S)
- Resolution 0.01 Cn
- Max Elongation range ≤200 mm
- Elongation measuring accuracy 0.01mm
- zero drift ≤0.2% (F.S)
- The falling speed of lower clamping device 2 ~ 200 mm/min (adjustable)
- The accuracy of falling speed ≤1%
- The rising speed of lower clamping device 100mm/min

Standards GB/T9997, GB/T14337, ISO5079, ISO11566
Power 220 /110 V 50/60 Hz
Weight 60 Kg
Dimensions 400 x 320 x 550 mm (L x W x H)

TB500 Cotton Trash Analyzer

Cotton Trash Analyzer, to analyses lint, trash and dust content within a sample of raw cotton fiber up to 100 grams. Also used to determine non-fiber content of synthetic fibers and to open and clean fibers for further testing. The analyzer uses the carding principle with air separation of lint and non-lint content.

Specifications

- Working width 490mm
- Size of feeding roller Dia.57.15
- Size of licker-in Dia. 238mm
- Rotation speed 900 r/min

Standards ITMF
Power 380 V 50/60 Hz 0.8 Kw
Weight 280 Kg
Dimensions 1120 x 840 x 1180mm (L x W x H)

TB510A Saw Gin Portable

Saw Gin Portable is used for separating seed cotton. After ginning, cotton fiber with trash, leaf, dust, etc is collected, and cottonseed with a little clean lint is collected in another container.

This lab type saw gin is portable and can be conveniently used for trial ginning and as the pre-process of cotton trash analyzer at cotton collecting point and plant, laboratory only. It is just for lab use, not able to run for a long time as a production equipment.

Specifications

- High efficiency cleaning unit and feeding roller, running is stable and reliable.
- Totally closed shield ensures safe operation
- Lightest and smallest model available.
- Saw 8 pcs

Standards JB-T 7884.1
Power 220 V 50 Hz 0.28 kW
Weight 22 kg
Dimensions 270 x 220 x 310 mm (L x W x H)

TB510B Saw Gin Floor-type

Saw Gin Floor-type is used for separating seed cotton. After ginning, cotton fiber with trash, leaf, dust, etc is collected, and cottonseed with a little clean lint is collected in another container.

This lab model gin is conveniently used for trial ginning and as the pre-process of cotton trash analyzer at cotton collecting point and plant, laboratory, etc.

Specifications

- High efficiency cleaning unit and feeding roller, running is stable and reliable.
- Simple driving system, low impact, low noise.
- Safe operation and power saving.
- Can be placed on study ground at work
- Work capacity 600 kg/h
- Saw 20 pcs

Standards JB-T 7884.1
Power 220 V / 380 V 50 Hz 2.2 kW / 4 kW
Weight 300 kg
Dimensions 1400x 800x1300mm (L x W x H)

TB510C Roller Gin Lab-type

Roller Gin Lab-type, used for cotton research labs, or low production of small and medium sized cotton factories to separate cotton fiber from seed cotton.

Specifications

- Roller size Dia.120mm, length 205mm
- Roller rotation speed 88 rpm
- Crankshaft rotation speed 800 rpm
- Cotton yield >/= Raw cotton yield (According to cotton grade)
- Rotation speed 1400 rpm
- Pressure of roller 4-7 kgf

Power 220 V 50 Hz 370W
Weight 80 kg
Dimensions 450 x 450 x 750 mm (L x W x H)

Yarn testing instruments

They are used for the testing of yarn,

To determine the physical properties of many kinds of fiber,

Such as yarn count, twist, moisture, elongation and breaking forces…

TY360A/B Wrap Reel

Wrap Reel, to produce skeins of yarn of a pre-determined length and number of turns for count and strength testing. 1 Meter, 36" or 54" circumference collapsible swift (specify). Wrap reel complete with yarn package stand and pre-tension device, fitted with pre-determined counter.

Specifications

- Circumference of winch — TY360A 1000 ±1 mm; TY360B 54 ± 1/16 inch
- Number of wrap — 1 ~ 9,999 adjustable
- Pre-tension — 2 ~ 100cn
- Traveling reciprocating distance — 35 mm
- Spacing of spindles — 60 mm
- Reel speed — 20 ~ 280r/min (variable)

Standards
ISO 2060, ASTM D1907/2260, BS 2010, DIN 53830, GB/T4743, GB/T14343, GB/T6838

Power	220 /110 V 50/60 Hz
Weight	105 Kg
Dimensions	780 x 660 x 510 mm (L x W x H)

TY361 Yarn Count Tester

Yarn Count Tester, automatically calculates yarn count systems used for sliver, roving and yarn, and can also be used for fabric yield. Yarn Count Tester consists of an accurate electronic balance and built-in calculating program.

Specifications

- Weight range — 151g
- Readability — 0.001g
- Base size — Dia. 120mm
- Display — Liquid Crystal Display (LCD) with Backlight
- Operation — AC Adapter (Included)
- Communication — RS232
- Construction — Metal base, ABS top housing, stainless steel pan, glass draft shield with sliding top door, replaceable in-user cover
- Unit — tex, den, Nm, g, mg

Standards ISO 2060

Power	220 /110 V 50/60 Hz
Weight	24 Kg
Dimensions	320 x 350 x 250 mm (L x W x H)

TY370 Twist Tester

Twist Tester, to determine yarn twist in single or plied yarns, quadrant type with auto stop & reverse for conventional or untwist/re-twist methods.

Twist tester offers adjustable test length up to 500mm/20 inches for S & Z twist yarns, and inching function helps operator to get an esteemed twist quickly. Test result in TPI / TPM is directly displayed on the touch screen.

Specifications

- Touch screen
- 4 test methods — direct counting, untwist/re-twist, 3- times untwist/re-twist method, etc.
- Length of specimen — 10 ~ 500mm adjustable
- Twist speed — 100 ~ 1900 rpm
- Yarn count range — 1 ~ 499.9 tex
- Units — TPM / TPI
- Twist range — 9999 twists
- printer is offered on request

Standards ISO 2061, ASTM D1422/1423, BS 2085, DIN 53832, IWTO 25-70

Power 220 /110 V 50/60 Hz

Weight 22 Kg

Dimensions 920 x 220 x 200 mm (L x W x H)

TY380 Yarn Board (Board Winder)

Yarn Board (Board Winder), to assess the evenness, hairiness, neps and other imperfections in a representative sample of yarn wound at a pre-determined pitch onto a tapered black yarn board. Variable pitch traverse of 7-19 wraps per centimeter, adjustable winding speed drive, equipped with alternative pre-tension, with yarn package stand and 5 tapered aluminum black yarn boards 250 x 180 mm. Assessment against photographic comparison standards (not included).

Specifications

- Black board — 250 mm (L) x 180mm (W)
- Yarn winding density — 7, 9, 11, 13, 15, 19 wraps / cm
- Rotation speed — 10 ~ 400 rpm (adjustable)

Standards ASTM 2255, GB 9996
Power 220 /110 V 50/60 Hz
Weight 35 Kg
Dimensions 1000 x 370 x 300 mm (L x W x H)

TY390 Color Card Winder

Color Card Winder is specially designed to wind cards for Textile Industry. The machine is used for making color cards, which will be fed into the photo spectrometer of the computer color matching systems, or for the purpose such as Sample cards, whiteness test, ultraviolet ray resist test, sample standardization, color comparison, color chart etc.
The electronic counter is equipped with pre-setting.
The machine should be adjusted to the size of the card of customers required before shipping.

Specifications

- Winding speed — 30 ~ 450r / min (adjustable)
- Winding width (each yarn) — 16 mm (customizable)
- No. of yarns — 10 (20 is offered on request)
- Winding carton size — 250 x 32 (specified in order, customizable)
- Count of cycles — Pre-settable

Standards ASTM 2255, GB 9996
Power 220 /110 V 50/60 Hz
Weight 70 Kg
Dimensions 650 x 670 x 320 mm (L x W x H)

TY400 Single Yarn Strength Tester

Single Yarn Strength Tester, to determine breaking strength and elongation of single cotton, wool and other yarns up to 10000 cN.

With a wide test range of 0 ~ 10000 cN, large colorful touch panel controls and displays test process and test results.

Specifications

- Test range 0 ~ 10000 cN
- Accuracy +/- 1 % at 2% ~ 100% of test range
- Elongation range and accuracy 900 mm, 0.1 mm
- Initial clamping distance 50 ~ 500 mm settable
- Pre-tension load 0 ~ 150cn, adjustable
- Clamp self-tightening, 1 set of clamps is included
- Tensile speed 10 ~ 1000 mm/min, adjustable

Standards ASTM D2256, ISO2062, GB/T14344, GB/T3916
Power 220 /110 V 50/60 Hz
Weight 50 Kg
Dimensions 370 x 530 x 960 mm (L x W x H)

TY400B Single Yarn Strength Tester

Single Yarn Strength Tester, to determine breaking strength and elongation of single cotton, wool and other yarns up to 120 N.

Various capacity of 0 ~ 1000cN, 3000cN, 5000cN are available on option; computer and printer are optional. Can be operated on both the computer or LCD screen.

Specifications

- working pattern CRE principle, controlled by computer or LCD
- Test range 0 ~ 3000cN, 0 ~ 5000cN, 0 ~ 12000cN
- Accuracy 0 ~ 10000 ≤ ± 0.2% F. S
- Elongation range 400 ± 1mm
- Gauge length 100mm, 250mm, 500mm
- Pre-tension load 0 ~ 150cn, adjustable
- Clamp self-tightening, 1 set of clamp is included
- Tensile speed 50 ~ 5000mm/min, adjustable

Standards ASTM D2256, ISO2062, GB/T14344, GB/T3916
Power 220V 50 Hz
Weight 100 Kg
Dimensions 590 x 480 x 1290 mm (L x W x H)

TY400C Automatic Single Yarn Strength Tester

Automatic Single Yarn Strength Tester, to determine the breaking strength and elongation rate of single yarn made of cotton, wool and others up to 6000cN, with air-driven clamps. Fully automatically test up to 20 cops at the same time.

Features

- Working pattern is CRE principle, controlled by software running in computer
- Automatic feeding of yarn, and automatic clamping for test, fast and without damages to yarn
- Fitted with Waste yarn collecting device, to make labs clean
- Test up to 20 cops at the same time
- Software is offered thus the machine can be controlled by a computer. The built-in printer or an additional printer can print test reports.

Specifications

- Test range 20cN ~ 6000cN
- Accuracy ≤ 1% F. S
- Sampling range 0 ~ 9m
- Pre-tension load 0 ~ 100cN, adjustable
- Elongation range 800mm
- Gauge length 250mm (stretching rate 220%), 500mm (stretching rate 160%)
- Tensile speed 50 ~ 5000mm/min, adjustable

Standards ASTM D2256, ISO2062, GB/T398, GB5324, GB/T14344, BS, JIS, AS, CAN/CGSB

Powe / Air 220V 50 Hz 0.4 ~ 0.8mPa
Weight 140 Kg
Dimensions 550 x 450 x 1600 mm (L x W x H)

TY420 Single Yarn Strength Tester Portable

Single Yarn Strength Tester Portable. Used to test the breaking strength of yarn on the scene or in the lab or in the factory by its portable design. The instrument is controlled by micro computer. It can process the data automatically and send them to the printer. It is necessary & essential to estimate the technical index of the yarn.

Specifications

- Form of date-out display & print with LED
- Max measure range 0 ~ 3000cN
- Measure precision ≤±1%
- Gauge Length 500mm
- Testing times of single group ≤100 times
- Range of linear density 1~599.9tex
- Testing times of per group 2 ~ 200 times
- Space times of group average 2 ~ 20times

Standards GB/T 3916
Power 220 V 50 Hz
Weight 8 Kg
Dimensions 800 x 300 x 230mm (L x W x H)

TY410 Lea Strength Tester

Lea Strength Tester, to determine the strength and elongation of skein yarn.
The lea strength of yarn is one of the major properties on which the suitability of yarn for its ultimate end use depends. The test for determination of lea strength consists of making a lea from the yarn with the help of a wrap reel and testing it on the lea strength tester, which registers the maximum load at which the lea starts unraveling.

Specifications

- Driven system Computer + Lea Strength Test Software + motor + ball screws + Load cell + accurate yarn holder
- Range 0 ~ 2500 N
- Accuracy ≤ 0.2%F·S
- Min reading 0.1N
- Traverse speed 10 ~ 600 mm/min, error < 2%
- Max travel 120 mm
- Clamps distance 50 ~ 500 mm
- Width of yarn holder 8, 12, 16, 20, 24, 28, 32

Standards ISO6939, GB/T8698
Power 220 V 50 Hz 600 W
Weight 80 Kg
Dimensions 500 x 630 x 1200 mm (L x W x H)

TY500 Lab Dyeing Oven

Lab Dyeing Oven, used to measuring the moisture regains or moisture content of all kinds of textile materials; also can be applied to other fields that need the constant temperature drying.

Specifications

- Temp. Range RT~150 ^{O}C
- Temp. Accuracy +/-1 ^{O}C
- Engine Power 30W
- Heating Power 2.6KW
- Balance Max. 200g, min division is 10mg
- Workroom Dimensions 600 x 500 x 450mm

Standards ISO2060, ISO6741, ASTM D2654, GB/T6102.1, GB/T9995, GB/T14341
Power AC220V+/-10% 50Hz
Weight 135 Kg
Dimensions 1080 x 995 x 1275 mm (L x W x H)

Testing instruments for fabrics & garments

Are used to test the materials and accessories of garments and other textile products, such as fabrics, leather, non-woven…

And zippers, buttons, Velcro…

The testing of fabrics and garments includes the following:

Strength of tension, tearing and bursting…

Resistance to abrasion, pilling and snagging…

Air permeability and water vapor permeability…

Color fastness to light, rubbing, washing, perspiration …

Water penetration after flexing of coated fabrics

And physical properties of zippers, buttons, etc.

TF001 Textile Tensile Testing Machine

Textile Tensile Testing Machine is designed to test a wide range of tension, bursting, tear, elongation, constant load, elastic, thread slip, peeling and other mechanical properties.

A PC-controlled machine equipped with motor and quality ball-screw for ideal and smooth control. The machine talks directly with a PC running a data analysis software package in English or Chinese, via a high speed RS232.

Equipped with a quality load-cell with an accuracy of 0.2% of the applied load value, from 1% to 100% of the load-cell capacity.

The machine has a huge assortment of specimen grips and fixtures available, allowing the wide range of test methods. Automatic pneumatic fixtures / clamps are offered

Specifications

- Windows based software operated and closed-loop controller controls. AC servo motor drives quality Ball-screw
- High speed RS232 connects computer and machine, controlled by a special Textile Tensile Testing Software. All test methods which customer requires can be programmed before shipping.
- Test capacity 2500N or 5000N
- Test space 400mm (W) x 600 mm (H)
- Load measurement accuracy +/-0.2% (1% ~ 100%FS)
- Resolution of load 0.1N
- Displacement resolution and accuracy 0.01mm.
- Speed range and accuracy 0.01 ~ 1000mm/min, error ≤ ± 2%
- Working space H 800mm x W 420mm
- Sample holder pneumatic clamping
- Built-in intelligent active force and displacement alarm system.
- High-resolution digital closed-loop controller
- Operating temperature range 0 to 38 degrees C
- Storage temperature range -10 to 45 degrees C
- Humidity range 10% to 90% non-condensing, web bulb method
- Power must be free of spikes and surges exceeding 10% of the nominal voltage

Standards

ISO 13934.1/2, ISO 13935.1/2, ISO 9073.3/4, ISO4606, ISO 1798
ASTM D76, ASTM D5034 / 5035, ASTM D2261 / D434 / D4964 / 5587 / D3936
GB/T 3923.1/2, GB/T 13772.1/2/3, GB8687, FZ/T 20019 / 70006 / 70007/ 01085 / 01030, JIS L1093, BS, DI

Power	220 /110 V 50/60 Hz
Weight	100 Kg
Dimensions	500 x 630 x 1300 mm (L x W x H)

TF002 Textile Tensile Testing Machine

Textile Tensile Testing Machine, to determine the physical and mechanical performance of tension, tearing, compression, bursting, rapture, flexibility, shear and peel and seam slippage. Especially designed to test a wide range of yarn, fabric and leather, with a huge assortment of specimen grips and software available; it can also be used for strength test of rubber, plastic, metal, wire, paper, packaging, and other materials.

TF002 is dual column type tensile testing machine, PC-operated, Japanese-made AC servo driving system and two quality ball-screws with load cell for ideal and smooth control. The machine talks directly with a standard PC running a data analysis software package, via a high speed RS232 in both ASCII and super high speed binary modes.

Specifications

- Test method CRE principle
- Control system closed control system, quality motor and ball-screws
- Test capacity 10 kN
- Tensile speed 0.001-1000mm / min digital speed, error ≤ ± 2%
- Elongation Resolution 0.001mm
- Measuring system high-precision force sensor
- Sampling frequency of system 2000 times / sec.
- Force measurement range 1% of full scale to 100%
- Minimum scale value 0.1N
- Force measurement accuracy ≤ ± 0.2% F · S
- Gauge distance limit control, digital setting
- Gauge distance accuracy ± 0.1mm
- Working space H 800mm x W 420mm
- Sample holder pneumatic clamping
- Holder control button switch and foot switch
- Built-in intelligent active force and displacement alarm system.
- High-resolution digital closed-loop controller
- Operating temperature range 0 to 38 degrees C
- Storage temperature range -10 to 45 degrees C
- Humidity range 10% to 90% non-condensing, web bulb method.
  Power must be free of spikes and surges exceeding 10% of the nominal voltage

Standards

ISO 13934.1/2, ISO 13935.1/2, ISO 9073.3/4, ISO4606,
ASTM D76, ASTM D5034 / 5035, ASTM D2261 / D434 / D4964 / 5587 / D3936
GB/T 3923.1/2, GB/T 13772.1/2/3, GB8687, FZ/T 20019 / 70006 / 70007/ 01085 / 01030, JIS L1093, BS, DIN

Power	220 /110 V 50/60 Hz
Weight	190 Kg
Dimensions	900 x 780 x 1750 mm (L x W x H)

TF003 Ball-bursting Strength Tester

Ball-bursting Strength Tester, used for testing the ball-bursting strength and expansion rate of cotton fabrics, elastic fabrics, sock and glove products.

Specifications

- CRE principle, Micro-computer controls quality motor and screws
- LCD displays displacement, force, speed, and other information
- Test range 2500N
- Speed range 5 - 500mm/min adjustable
- Bursting balls SΦ20mm (or SΦ25mm, SΦ38mm)
- 1 set of Ball-bursting Strength Test rig is included.

Standards

ISO 9073-5,ASTM D3787, ASTM D6796, FZ/T01030, GB/T19976, FZ/T 6001

Power	220 V 50/60 Hz
Weight	120 Kg
Dimensions	500 x 550 x 1200 mm (L x W x H)

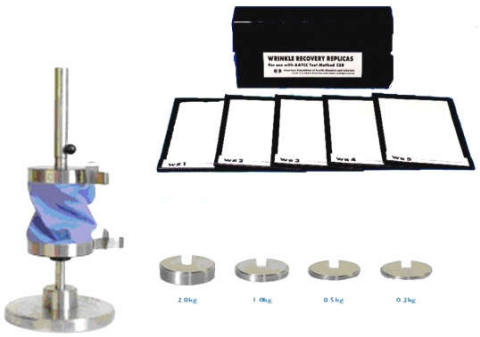
TF110 Crease Recovery Tester

Crease Recovery Tester & Loading Device, to determine the recovery properties of fabrics by creasing in a loading device for a pre-determined time using a weight suitable for the test method specified (BS/ISO/AATCC). After transferring the specimen to the clamp of the tester, the specimen is allowed to recover and the angle of recovery recorded.

Comes completely with a crease recovery tester and two loading device, and other required accessories.

Standards ISO 2313, AATCC 66, BS EN 22313, M&S P22
Weight 5 Kg
Dimensions 170 x 170 x 360mm (L x W x H)

TF112 AATCC Wrinkle Recovery Tester



AATCC Wrinkle Recovery Tester is used for determining a fabric's ability to recover after wrinkling under a pre-determined load for a set period of time.
A set of 5"x3" dimensional plastic replicas is offered on request to grade the test samples 1 ~ 5.

Optional order
AATCC Wrinkle Recovery Tester Plastic Replicas (Set of 5)

Standards AATCC 128, ISO 9867, ENKA 3061
Weight 5 Kg
Dimensions 150 x 150 x 330mm (L x W x H)

TF113 Fabric Stiffness Tester

Fabric Stiffness Tester, to determine the bending height, flexural rigidity and bending modulus of a fabric by simple procedures and calculation.

Specifications
Tilt angle: 41. 5 º

Standards ISO 9073-7, ASTM D1388, BS 3356, BS EN 22313, DIN 53362, ERT 50-2
Weight 4 Kg
Dimensions 350 x 150 x 200mm (L x W x H)

TF114 Stiffness Tester Pneumatic

Fabric Stiffness Tester Pneumatic, used for testing the stiffness of fabric by the bending cycle test method of ASTM.

Test Procedure
A plunger of 25.4mm (1 in) diameter pushes the fabric through a 38mm (1.5 in) diameter orifice for a distance of 57mm (2.25 in) in 1.7 seconds and the maximum force is recorded.

Specifications
- Provided with pneumatic cylinder
- Digital force gauge 50 kgf, 500N or 100lb (switchable with peak-hold facility)
- Compressed air is required.

Standards ASTM D4032
Air Source 0.4-0.7 Mpa
Weight 18 Kg
Dimensions 500 x 500 x 600mm (L x W x H)

TF115 Leather Softness Tester

Leather Softness Tester, to determine the softness of leather and coated fabrics and other soft materials. Softness tester does not need samples to be cut from leather prior to testing. This enables a quality system to be set-up between supplier and customer whenever leather softness is a priority.

Standards IULTCL IUP/36 (equivalent EN ISO 17235)
Weight 6 Kg
Dimensions 500 x 100 x 200 mm (L x W x H)

TF116 Bally Flexing Tester

Bally Flexing Tester (Flexometer) is designed for flexing resistance test to bending or other types of failure at flexing creases.
The Flexometer is applicable to all flexible materials, in particular leathers, artificial leather below thickness of 3.0mm, and other coated fabrics, sheet materials, etc.

Specifications
- Work stations 12
- Counter 1 ~ 999,999 times

Standards ISO 5402, SATRA TM55, DIN 53351, BS-3144, BS EN 13512, JIS-K6545, CNS-7705
Power 220 V 50/60 Hz 4 A
Weight 90 Kg
Dimensions 480 x 480 x 320 mm (L x W x H)

TF117A De Mattia Flexing Tester

De Mattia Flex-cracking Tester, to determine the resistance of rubbers, leather and coated fabrics to the formation and growth of cracks, damages by repeated flexing. Clamp the specimen in grip and flex it constantly, then observe the cracking degree to realize or compare its flex-endurance after flexibility fatigued.

Specification
- Specimens 6 groups
- Grips Distance 19 ~ 75mm, 57 ~ 75mm (adjustable)
- Test frequency 5 cycles/s (300cpm)
- Counter 1 ~ 999, 99

Standards ISO 7854, BS 3424-9, GB/T 12586, ISO 132, JIS-K6260, ASTM D813, ASTM D430, BS-903, GB/T 12586, GB/T 13934, GB/T 13935, DIN EN ISO 20471
Power 220 /110 V 50/60 Hz
Weight 88 Kg
Dimensions 550 x 450 x 700mm (L x W x H)

TF117B Schildknecht Flexing Tester

Schildknecht Flexing Tester is designed to determine the resistance of coated fabrics to damage by Flexing due to oscillation at 500 times per minute. Accommodating 10 specimens, and safety shield is offered to protect operator. Test speed, the counting, the timing are set and displayed on the LCD and controller.

Specification
- Counter
- Timer
- Stroke length 11.7mm

Standards ISO 7854 , BS 3424, GB/T 12586
Power 220 V 50/60 Hz
Weight 120 Kg
Dimensions 360 x 490 x 280mm (L x W x H)

TF117C CrumpleFlex Tester

CrumpleFlex Tester, to determine the degradation of water resistance of coated fabrics due to crumpling and Flexing in use.

The equipment tests a tube of fabric by twisting it through 90° stretching alternately compressing the tube at the same time. After completion of the test, the fabric is tested for resistance to penetration by water. Crumple-Flex Tester is fitted with electronic pre-determined counter with automatic stop at a pre-determined number of cycles, and also fitted with acrylic plastic interlock safety cover.

Features
- Impact design of construction and appearance
- Acrylic safety cover ensures safety in operation

Model
- TF117C Crumpleflex Tester - Single Head (90kg)
- TF117C2 Crumpleflex Tester - Double Heads (110kg)
- TF117C4 Crumpleflex Tester - Four Heads (140kg)

Standards ISO 7854, BS 3424.9, GB/T 12586, ISO 8096
Power 220 /110 V 50/60 Hz 3 A
Weight 90 Kg
Dimensions 570 x 380 x 380mm (L x W x H)

TF118 Fabric Drape Tester

Fabric Drape Tester, to measure and calculate the co-efficiency of drape of fabrics using image processing technology. It can be used to test the drape property of all kinds of fabrics.

Equipped with CCD imaging system, dynamic and static images processing, it offers a variety of charts and data statistics, analysis, storage and output. Specimens in all colors can be tested without changing background color.

Specifications
- Working pattern — computer controlled, CCD imaging, full-automatic processing of images and computer data.
- Imaging sensor — CCD
- Drape coefficient range — 0 ~ 100%=
- Accuracy — ≤ +/-1.5%
- Diameter of specimen disc — Φ120mm (optional Φ180mm)
- Dimension of specimen — Φ 240mm (optional Φ 300mm, Φ 360mm)
- Light source
- Rotation speed — 10 ~ 120 rpm

Standards BS EN 9073, BS 5058, ERT 90-1, AFNOR G07-109, UNI 8279, FZ/T01045
Power 220 V 50 Hz 120 W
Weight 160 Kg
Dimensions 480 x 540 x 870mm (L x W x H)

TF119 Scott Type Crease-Flex Abrasion Tester

Scott Type Crease-Flex Abrasion Tester, to determine the Crease-Flex abrasion resistance of leather, rubber, cloth, etc. The force loaded on specimen, distance between grips and the two-way distance can be adjustable. And the force loaded on specimen is of spring type.

Clamp the two specimens in cross shape. Based on the various materials of the specimen, apply the appropriate load. During test, the two specimens are creased and Flexed reciprocally. After reaching the specified number of abrasion, take off test samples to check if they are cracked, wrinkled or discolored.

Specification
- Specimen 25 x 120mm
- Holders 0 ~ 50mm (standard 20mm)
- Pressure load 0.5 ~ 5kgf
- Friction distance 0 ~ 60mm (standard 40mm)
- Friction speed 120+/-2cpm

Standards JIS-K6404-6, L1096, JASO
Power 220 V 50/60 Hz
Weight 95 Kg
Dimensions 500 x 400 x 550mm (L x W x H)

TF120 Fabric Scale

Fabric Scale, to nicely determine the weight of fabric, paper, cardboard and film, etc. This electronic scale is provided with LCD display, stainless steel plate, touching switches and wind-proof caps.

Specifications
- Unit conversion Grams, grams/m2, ounce, and ounce/square yards, Pound, Pennyweight
- Measuring range 210g
- Precision 0.01g

Standards ISO3801, ASTM D3776/2646, BS 3424/2471, BS EN 12127, M&S P65/65A, NEXT 20
Power 220 /110 V 50/60 Hz
Weight 4 Kg
Dimensions 250 x 250 x 150mm (L x W x H)

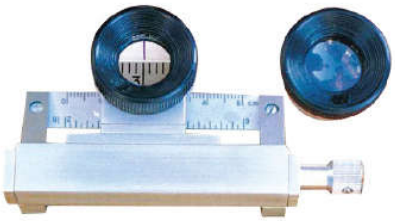
TF121 Auto Thickness Gauge

Auto Thickness Gauge, to determine the thickness of various woven and knitted fabrics under a certain pressure. Automatic lifting up and down is to avoid manual operation error; each test should be pre-set pressing time for 10s or 30s, available with two unit mode in mm and inch.

Specifications
- Digital display
- Range of thickness 0.01~25mm (optional 0.001~25mm)
- Measuring accuracy 0.01mm (optional 0.001mm)
- Lowering speed of pressing-foot 1.72 mm/s
- Area of pressing foot 100mm2, 2000mm2, 2500mm2, 10000mm2
- Load Weight 20cN, 100cN, 200cN, 500cN, 2000cN
- Pressing duration 10s, 30s

Standards ISO5084, ISO 9073, ISO9863, GB 3820, FZ/T 01003
Power 220 V 50 Hz 40 W
Weight 70 Kg
Dimensions 410 x 160 x 300 mm (L x W x H)

TF122 Fabric Density Glass



Fabric Density Glass, used to test the number of yarn of all fabrics.

Specifications
- Magnification Multiple
- 10 fold applicable for fabrics below 60-count
- 20 fold applicable for fabrics above 60-count
- Movable size 50mm

Standards GB/T4668, ISO7211.2
Weight 2 Kg
Dimensions 97 x 53 x 35mm (L x W x H)

TF123A Moisture Analyzer

Moisture Analyzer combines state-of-the-art heating with highly accurate weighing technology to deliver a faster, more precise method of moisture analysis.

Features
Fast halogen heating (1ºC increments to 200ºC in 30secs), Repeatability 0.015% (10g sample), choice of units, statistics, manual, timed and auto stop modes (mg/s); 4 temperature profiles (standard, fast, ramp, step); audible feedback; selectable print intervals; storage of up to 50 drying programs with statistics, text prompts and scrolling menus to guide user through set-up and analysis.

Specifications
- Display Graphical backlit LCD can show temperature/time, setup ID, initial Weight, drying curve (real time), % moisture
- Operation Mains operation
- Communication RS232 interface, GLP with time & date
- Construction Durable ABS with stainless steel pan & in-use cover
- Capacity 90 g
- Readability 0.001mg
- Platform 90mm

Power 220 /110 V 50/60Hz 3 A
Weight 50 Kg
Dimensions 360 x 190 x 160mm (L x W x H)

TF123B Hand-held Textile Moisture Meter

Hand-held Textile Moisture Meter, widely used in leather materials, fabrics, garments, yarn, axis, cheese, textiles and other industries that need rapid determination of moisture (moisture regain).

Features
- Textile moisture meter using high-frequency theory, LCD digital display, the probe and the host all in one.
- Position the probe against the surface to be measured, determine moisture quickly within one second.
- Measure accurately and without any damaging on the surface to be measured.
- Small size, light Weight that can be portable for on-site rapid testing

Specifications

Moisture range	0 ~ 40%
Work environment	-5 ℃ ~ +60 ℃
Accuracy	± 0.5%
Response time	1 second
Display	LCD digital display
High-frequency scanning depth	50mm
Stall converter	0 ~ 10

Power	9V battery (6F22)
Weight	2 Kg
Dimensions	160 x 60 x 27mm (L x W x H)

TF124 Course Length Tester

Course Length Tester, to determine the accurate length of a complete course of knitted fabric. When the yarn is attached to the clamp and wound round the pulleys, the length indicated on the ruler by the weighted clamp is added to that indicated on the appropriate location in use to give the total length of yarn.
Course length range 50-900cm (2-36 inches).

Standards	BS 5441
Weight	25 Kg
Dimensions	50 x 25 x 1550mm (L x W x H)

TF125 Crimp Tester

Crimp Tester, to calculate the crimp in yarn affected by knitting or weaving by taking apart the yarn from a piece of given-length fabric, unbending it under given force and measuring its length, to determine actual yarn usage.

Features
- Touch panel display and control
- Auto alarms after drawing to a predetermined tension, and stops
- Automatic or manual testing mode
- Automatic operation after setting up force value
- Real-time display of elongation and force value

Specifications

Load range	0. 01 - 200 cN
Length sensor accuracy	1mm
Display	Touch panel
Stroke (excluding grips)	10 - 1000mm

Standards
ISO 7211, ASTM D3883, GB/T 25296, FZ/T 01091, FZ/T 01093, FZ/T 70008, IWSTM 169, BS 2863/2865/2866

Power	220 /110 V 50/60 Hz 200W
Weight	46 Kg
Dimensions	1655 x 330 x 300mm (L x W x H)

TF128 Moisture Management Tester

Moisture Management Tester, to measure the dynamic liquid transport properties of textiles such as knitted and woven fabrics in three dimensions

Absorption Rate - Moisture absorbing time of the fabric's inner and outer surfaces.
One-way Transportation Capability – Liquid moisture one-way transfer from fabric's inner surface to outer surface

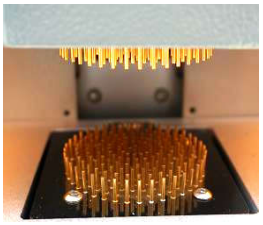
Spreading / Drying Rate – Speed of liquid moisture spreading on fabric's inner and outer surfaces

MMT permits the measurement of the following indexes
- Wetting Time Top / Bottom (WTT / WTB)
- Absorption Rate Top / Bottom (TAR / BAR)
- Maximum Wetted Radius Top / Bottom (MWRT / MWRB)

- Spreading Speed Top / Bottom (TSS / BSS)
- Accumulative One-Way Transport Capacity (R)
- Overall Moisture Management Capacity (OMMC)

Specifications
- MMT Analysis Software is offered
- Interface USB 1.1/2.0
- Power Supply 110V~230V 50Hz/60Hz 0.5 A
- Operation Temp & R. H. 18°C to 40°C, 20% to 80% (non-condensing)
- Pump On Time 20 sec
- Test Solution Conductivity - 16 mS± 0.2 mS
- Upper Weight 4.65N ± 0.05

Standards BS - 3144 Addendum 1
Weight 60 Kg
Dimensions 320 x 200 x 320mm (L x W x H)



Gold-plating Pins

TF129 Sweating Guarded Hotplate

Sweating Guarded Hotplate is the most professional, stable and advanced Thermal and Evaporative Resistance test instrument in the world.

Human skin simulation test plate, automatic water supply system, wind speed stabilization system, test host and climate chamber are completely separated design. Automatically adjust the height of the hotplate according to the thickness of the test sample, ensure the wind sensor is 15mm above the hotplate.

A Windows based software is offered. The main machine inside the chamber is connected with the software by Wi-Fi, so operators may control and monitor the testing in the office.

An advanced Temperature & Humidity Chamber is offered with the machine.

Specifications
- (RCT)Thermal resistance range 0.002-2 .0 m²K / W
- Repeatability ≤ ± 2%
- Resolution 0.0001m²K / W
- (Ret) evaporative Resistance range 0-1000m²Pa / W
- Repeatability ≤ ± 2%
- Resolution 0.001m²· Pa / W
- Test plate temperature range 30 oC ~ 40 oC adjustable
- Temperature control accuracy ± 0.03 oC
- Temperature measurement ± 0.01 oC
- Air velocity 0 ~ 1.2 m / s, adjustable
- Air velocity accuracy ± 1%
- The sample platform lifts range 0 ~ 50 mm automatic lift
- Sample thickness 0 ~ 50 mm
- Test plate area 254 mm x 254 mm
- Guard ring size 512 mm x 512 mm
- Guard ring width 127 mm

Standards ISO 11092, ASTM F1868, ASTM D1518, GB/T 11048, JIS L1096
Power 110V/220 V 50 Hz
Weight 600 Kg
Dimensions 1600 x 1300 x 1800mm (L x W x H)

TF130 Thermal Resistance Tester

Thermal Resistance Tester, to determine the thermal resistance, thermal conductivity, and CLO value of various fabrics, quilting products, and other heat insulation materials.

Microcomputer controlled, data processors and quality temperature sensors are used, ensuring high test speed and precise test result. All performances of the sample (Include Insulation rate, heat transfer coefficient) can be directly calculated. Test data and result are displayed on the large LCD display, and can be stored or printed out.

Specifications
- Temperature range 20-50℃
- Temperature accuracy ±0.5℃
- Resolution of temperature 0.1℃
- Range of Pre-heating Time 0 ~ 99.9min
- Cycles 1-9 times
- Sample size 300 x 300mm
- Testing plate size 250 x 250mm

Standards ASTM D1518, JIS L1096, ISO 11092, GB/T 11048, FZ/T 73016
Power 220 V 50 Hz
Weight 85 Kg
Dimensions 520 x 630 x 700mm (L x W x H)

TF131 UV Penetration & Protection Test System

UV Penetration & Protection Test System. Fabric Samples are measured in a double beam spectrophotometer with an integrated sphere. The sample is scanned over the UVA and UVB regions of the spectrum and transmitted radiation is efficiently collected by the detector within the integrating sphere. The software calculates UV penetration factors and sun protection factors from the scan data. It runs on a PC under Microsoft Windows and controls the spectrophotometer, automates the measurement process and generates a printed report. PC and printer are not included.

Specifications

- Measuring range
- Through rate 0-100% ± 0.01% UPF 0-100
- Wavelength range 280 ~ 400nm ± 0.5 nm
- Wavelength repeatability 0.25 nm
- Data interval 1-5nm (adjustable)
- Slit width </= 5nm
- Optic system 0 / d
- Light diameter of sample 10mm

Standards AATCC 183, BS 7914, AS/NZS 4399, PREN13758, GB/T18830

Power 220 /110 V 50/60 Hz 100W

Weight 50 Kg

Dimensions 280 x 500 x 550 mm (L x W x H)

TF132 Fabric Electromagnetic Shielding Tester

Fabric Electromagnetic Shielding Tester, to determine the plane wave shielding effectiveness of materials, such as woven and non-woven fabric, metal sheet, coating, metal net, conductive film, conductive glass, conductive medium sheet, plate-type electromagnetic shielding materials, etc.

Electromagnetic shielding tester uses coaxial flange test method with double-shield structure, analysis system can determine the fabric electromagnetic shielding accurately by the computerized transmitter and receiver, and automatic data acquisition.

Specifications

- Range of launch frequency 20MHz ~ 1.3 GHz
- Instability of launch frequency <1000Hz
- Jumping frequency interval of launch min 1MHz
- Launch output power > 13dBm.
- Receiving power dynamic range +5dBm to -55dBm
- Receiver accuracy ± 1dB
- Receiver power resolution 0.01 dB
- Receiver frequency range 10MHz ~ 3GHz test
- Performances of double-shield > 20Db
- Sample thickness </= 5mm

Standards ASTM D4935, SJ2054, GB/T23326

Power 220 /110 V 50/60 Hz

Weight 80 Kg

Dimensions 950 x 550 x 510 mm (L x W x H)

TF134 Down-proof Tester

Down-proof Tester, to determine the down-proof capability of fabrics used for down-garment, quilt, etc, which are filled with down, feather and fibers.
Take an agreed size specimen from the fabric to be tested to sew a pocket at specified size, fill with a certain weight of down, feathers or a mixture of both, then sew the fabric up to be a testing bag. Clamp the both sides of the bag in the holder. Determine the down-proof ability of the fabric by calculating the number of down and feathers through the fabric.

Specifications

- LCD displays and control
- Fixture space 44 ± 1 mm
- Eccentricity 25 ± 0.5mm
- Speed 0~160 r / min (Adjustable)
- Sample size 140 x 420 mm
- Cushion size 120 x 170 mm
- Test times 2700, settable
- Counter 0 to 99,999 times
- LED display

Standards BS 12132, EN 12132-1, GB/T 14272-201

Power 220 /110 V 50/60 Hz

Weight 45 Kg

Dimensions 400 x 270 x 190 mm (L x W x H)

TF135 Feather & Down Filling Power Tester

Feather & Down Filling Power Tester, to determine the filling power (massic volume) of feather and down.
Pressure on the sample by dropping the platen is applied to the filling material at a constant speed and the level of the platen is noted after a stipulated time. The massic volume is calculated through the height and the known diameter of the graduated cylinder.

Functions
- Automatic blowing system
- Individual filter system design
- DC gear motor driving
- SCM controlling
- Touch screen operation
- Automatically lower done the platen and display the height

Specifications
- Measuring speed 540mm/min
- Measuring height 600mm
- Measuring accuracy 0.1mm
- Graduated cylinder internal diameter 290mm
- Plunger and Measuring Rod diameter 285mm, weight 94.3g
- Air velocity 3 ~ 5L/S
- Equipped with printer

Standards BSEN12130, JISL1903,FZ/T80001, GB/T14272-2011, GB/T10288, IDFB—FP

Power 220V 50 Hz 100W
Weight 80 Kg
Dimensions 500 x 550 x 1200mm (L x W x H)

TF136 Formaldehyde Content Tester

Formaldehyde Content Tester, used for rapid determination of formaldehyde content of variable textiles. To simultaneously measure formaldehyde value and absorbance value by using the extraction method.

Features
- Microprocessor control and automatic data processing spectrum.
- Most test methods can be done on this machine, such as absorption curve, wavelength, absorbance and transmittance, etc.
- With computer on-line operation, more curve tests can be conducted.

Specifications
- Control & display controlled by microcomputer, LCD
- Online Operation able to make standard curves and data processing, such as
- data storage, statistical analysis of data, calculation,
- printing, etc.
- Range of Testing Light Transmittance: 0%-100%
  Absorbance: 0-2.0
- Formaldehyde Content 2.00-500.00 mg/kg (sample attenuation up to 5000mg/kg)
- 1.00-500.00 mg/kg (sample attenuation up to 5000mg/kg)
- Wavelength Coverage 300-1000nm, adjustable,
- Wavelength Accuracy ±3nm
- Wavelength Repeatability ±1nm
- Sample Room measurement of the optical path is 100mm
- Concentration Accuracy ≦0.5% @412mm
- Light Source 6V/10W, 2000 hours long imported Tungsten halogen

Standards ISO 14184.1, ISO 14184.2, AATCC 112, GB/T 2912.1, GB 18401GB/T9997, GB/T14337, ISO5079, ISO11566

Power 220 /110 V 50/60 Hz
Weight 20 Kg
Dimensions 500 x 550 x 200 mm (L x W x H)

TF143 Fryma Extension Tester

Fryma Extension Tester, to simply and economically determine the stretch and recovery of textile fabrics, both knitted and woven. The apparatus consists of a loading frame with clamps and a screw tensioning device, two 3kg loading weights and sample cutting templates.

Clamp the test sample. By rotating the shaft in the back anti-clockwise, the moving clamp is moved back to stretch the sample, so the stretch rate can be read directly on the scale, and both knitted fabrics and woven fabrics scales can be read. By pressing the knob on the right side, the moving clamp can be returned back to initial position quickly

Specification
- Loading weights 3 kg x 2 pcs
- Stretch rate of knitted 50 %
- Stretch rate of Woven 300 %

Standards BS 4294
Weight 35 Kg
Dimensions 360 x 170 x 170mm (L x W x H)

TF140C Auto Elmendorf Tear Tester

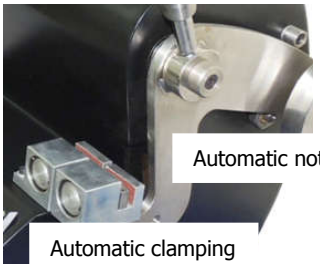
Auto Elmendorf Tear Tester (patented product), is used to determine the ballistic tearing strength of textiles, plastics, paper or board.

Elmendorf tear tester enables rapid determination of the dynamic resistance of materials designed to be subject to strong shearing loads (e.g. fabrics) or liable to be damaged by sharp or heavy objects (e.g. paper bags). Subsequently, the test was naturally adopted for all materials in the form of sheet or films, cardboards, cloth, knitted fabrics, plastic films, aluminium foil, non-woven fabrics, complex flexible packaging etc.

Elmendorf type tear tester is not applied to sparse fabric or stretch materials which the tearing direction might be shift in test.
Compressed air of 0.4~ 0.7 mPa is required.

Features

- Works in accordance with all known test Standards.
- The model is the only one that covers the most completed test range from 0 to 12800cN.
- RS-232 data output, windows based TESTEX Tearing Test software.
- Machine can be controlled by the large graphic touch panel without computer and software.
- Automatic specimen clamping and notching.
- Repeatable, pneumatic specimen gripping system guarantees sufficient clamping pressure to avoid all slipping phenomena, thus ensuring perfect reproducibility of the experimental conditions.
- Automatic compensation for friction and leveling errors, no slave pointer, therefore no friction, alignment and maintenance problems.



Automatic notching

Automatic clamping

Specification

- Capacity 0-12800 grams (0 ~ 128N)
- Pendulum Range(cN) 0~ 1600, 0 ~ 3200, 0 ~ 6400, 0 ~ 12800
- Accuracy 0.2% of pendulum range
- Unit GF, MN, CN, CP, LB

Included Accessories

- TESTEX Elmendorf Tearing Test software
- Complete with work pendulums
  1600cN/g (3.5lb), 3200cN/g (7.0lb), 6400cN/g (14.0lb), 12800cN/g(28.0lb)
- 2 pcs of Cutting blades
- 1 pc of Specimen cutting template

Standards ASTM D1424/5734, ISO 1974/9290, BS ISO 13937, BS 3424/4253/4468, DIN 53862/53128, NEXT 17, M&S P29, INDA IST 100.1, AFNOR G 07-149, GB/T 3917.1, FZ/T 60006, FZ/T 7500

Power/ Air	220 /110 V 50/60 Hz 0.5 ~ 0.7 Mpa
Weight	105 Kg
Dimensions	560 x 420 x 530 mm (L x W x H)

TF142A/B Auto Bursting Strength Tester

Auto Bursting Strength Tester, to determine the bursting strength of fabric, woven or knitted fabrics, non-woven, paper and board by the of hydraulic load under a rubber diaphragm of a specific area.

Bursting tester provides with a digital readout of pressure with peak hold facility, renewable rubber diaphragms. Automatic clamping device with clear acrylic bell, an LED lamp are equipped for easy observation.

Provided with Windows based Bursting Strength Testing software, it gives accurate control of the unit, user friendly interface and presentation of test reports together with data storage and retrieval.

Interchangeable test bells and clamping ring sets 7.3cm2 (Φ30.5mm), 10cm2 (Φ35.7mm), 50cm2 (Φ79.8mm), 100cm2 (Φ112.8mm).

Bursting tester is provided with three test methods, Constant speed bursting, Certain pressure bursting and Certain extension.

Specifications / Features

- High-accuracy servo-motor driving system
- Automatic-clamping offers firm and reliable clamping
- Large colorful touch panel, can be operated without computer
- Automatic induction and bursting system, can be connected with computer and printer, test curve, test result is easy to output and read.
- Equipped with memory and printing function, supporting on-line operation.
- Resolution 2Kpa.
- Test Head and Clamp: 50cm2(Φ79.8mm), 7.3cm2(Φ30.5mm), the other sizes are available on request.

Models

- TF142A 2000 kPa (290 psi)
- TF142B 10000 kPa (1450 psi)

Standards	ASTM3786-06,ISO2758/13938-1, BS 3424/3137, BS 4768, AS2001.2.4, GB/T 7742, IWSTM 29, EDA NA 80.4-02/80.3-99, NEXT 22 2206, FZ/T60019, JIS L 1018.6.17, BS-2922, FZ/T 60019, FZ/T 01030, JIS L 1018.6.17
Power	220 /110 V 50/60 Hz
Weight	170 Kg
Dimensions	620 x 450 x 530 mm (L x W x H)

TF142C Pneumatic Bursting Tester

Pneumatic Bursting Tester, to determine the bursting pressure of fabrics using pneumatic test method, including knits, woven fabric, non-woven fabric, laminated fabric and other craft-made fabric

A test specimen is clamped over an expansive diaphragm by a circular clamping ring; increasing compressed air pressure is applied to the underside of the diaphragm, causing distension of the fabric until the test specimen bursts; the bursting strength and distension are determined.

Real time testing-curve is shown on the Bursting software. The machine can also be controlled easily by the graphics touch-screen without computer.

Specifications/ Features

- Computer & Special software controlled, automatic clamping and burst test, automatic calibration, automatic data processing and test report output
- It can be controlled by its easy to use graphics touch-screen instead of computer
- Bursting pressure up to 1200KPa, accuracy ≤ ±0.2%F•S
- Burst distension up to 70mm
- Equipped with lamp for clear observation
- Transparent acrylic cover ensures safe operation
- 4 most commonly used test areas are available and be easily shifted
- Test area 100, 50, 10, 7.3 cm2 (112.8, 79.8, 35.7, 30.5 mm Dia.)

Standards ISO 13938-2, IWS TM29, BS-2922, FZ/T 60019, FZ/T 01030, JIS L 1018.6.17, AS2001.2.4, GB/T 7742
Power/Air 220 /110 V 50/60 Hz 0.4 ~0.7 MPa
Weight 180 Kg
Dimensions 560 x 450 x 580mm (L x W x H)

TF144A Button Impact Tester

Button Impact Tester, to determine the impact resistance of plastic sew-through flange buttons to a falling mass of 0.84kg (29.5oz), released from a height of 67mm (2.625 inches) or other heights as required. Cracking, chipping or breakage constitutes failure.

Specifications

- Impact Load 0.84Kg
- Impact Height 32, 44, 67, 83, 95, 117, 200mm

Standards ASTM D5171
Weight 20 Kg
Dimensions 240 x 200 x 340mm (L x W x H)

TF144B Izod-type Impact Machine

Izod-type Impact Machine, to determine all types of buttons (10mm diameter and over) to encounter violent blows during clothing manufacture or use, by a pendulum of a specified mass released from a specified height to strike the button. Observe and record if the button breaks, fractures, or distorts.

Specifications

- Mass of hammer 53g
- Mass of rod 16g
- Button holders 16 holders

Standards BS 4162, GB/T 22704
Weight 25 Kg
Dimensions 260 x 260 x 300mm (L x W x H)

TF145 Snap Tester (Button Pull Tester)

Snap Tester (Button Pull Tester), to determine the holding or breaking strength of prong-ring attached snap fasteners onto garments or toys, also as a Push Pull Tester for compression and tensile testing of small samples(special attachments are available).

Our snap tester consists of an upper snap clamp, a lower fabric clamp and force gauge mounted on a stand, a hand wheel on the bottom of snap tester which allows fine control with convenient operation.

The snap component is gripped by the Upper Snap Clamp and the garment is fixed to the lower Fabric Clamp. By turning the hand wheel, The operator can apply a specific force and the holding force or the breaking strength can be recorded. The capability of the snap tester can be enhanced with clamps & accessories for testing of other Snaps, Jean Buttons, Four Hole Buttons & Garments Accessories such as Zippers, Bows, Appliqué, Toggles, Hooks/Bars, and D-Rings, amongst others.

Included Accessories
- 1 Lower Fabric Clamp, Lever Armlocking
- 1 Upper Stud Clamp
- 1 Upper Snap Clamp
- 1 Three Pronged Clamp
- 1 Two Pronged Clamp with screw
- 1 Lower Grasp Button Kit
- 1 Long Nose Vice Grip
- 1 Safety Goggles
- 5 Rubber Rings
- 1 Operation Manual

Optional order
Imada Force Gauge (300N, resolution 2N, accuracy +/-1%FS)

Standards ASTM PS79-96, ASTM F963, EN 71-1, 16 CFR 1500.51-53, M&S P115A
Weight 45 Kg
Dimensions 230 x 280 x 750mm (L x W x H)

TF149 Zipper Strength Tester

Zipper Strength Tester, used for testing zipper strength or zipper fatigue test for puller attachment, closed-end, top stop, open-end fastener box, slider locking device.
Also tests lateral strength of fastener, the open-end attachment, and test of open-end fastener single stringer slider retention.

Specifications
- Provided with 7 sets of fixtures/grips for complete zipper tests
- PC control and specified Zipper Strength Tester software via high speed RS232
- Drawing and displaying real-time force/displacement curve, force/time curve, etc. during test
- Quality AC servo motor drives quality ball screw
- Working pattern The constant rate of elongation (CRE) principle, micro computer controlling, testing report printing
- Max. load 250KgF (2500N).
- Testing range 1%~100% of the full range
- Testing accuracy ≤±0.2%F·S
- Sample frequency 2000 times / second
- Tensile speed 0.1-1000mm/min digital speed, error ≤±2%
- Instrument max.travel 600mm
- Output types Displaying output, printing output.

Standards BS 3084, ASTM F964, QB/T2171, QB/T2172, QB/T2173

Power 220 /110 V 50/60 Hz
Weight 80 Kg
Dimensions 500 x 630 x 1200mm (L x W x H)

TF150 Zipper Reciprocation Tester

Zipper Reciprocation Tester, to determine the resistance to reciprocation of zipper (slide fastener). The test specimen is subject to a specified number of cyclic operations whilst under lateral and longitudinal tension.

Zipper Tester catches the head of zipper to do reciprocating movement in a constant speed for 30 times per minute. Integral counter is set to stop the drive when a pre-selected count has been reached.

Equipped with a sensor so that the machine will stop automatically before the zipper is broke. Adjustable stoke 40~100mm is offered as request.

Specifications
- Speed 30 cpm
- 0 ~ 100 N lateral force
- 0 ~ 50 N longitudinal force
- Counter 1-999,999 times (adjustable)

Standards BS 3084, CNS -1083, QB/T 2171
Power 220 /110 V 50/60 Hz 4 A
Weight 80 Kg
Dimensions 480 x 350 x 950mm (L x W x H)

TF150B Zipper Sliding Smoothness Tester

Zipper Sliding Smoothness Tester, to determine the sliding smoothness of zippers made of metal, injection mould plastic, nylon, etc.
The force measurement is made of high precision force sensor and microcomputer.
Automatic tracking of force values and peak values of force automatic positioning function;

Windows based software display and store the test result of sliding smoothness, max. min. av. C., etc., and automatically judge the test results;
Comes with touch screen display and user-friendly interface that is easy to operate.

Standards QB/T 2171, QB/T 2172, QB/T 2173

TF150C Zipper Torque Tester

Zipper Torque Tester, to determine the torsion resistance of zippers, and 3 test methods is offered: torsion breaking, angle test and load test.
Real time test result and process is displayed on touch panel, or on the windows based software on computer when connected.

Specifications
- Torque range 5.000N.m
- Torque accuracy 0.1cN.m
- Torsion angle 150
- Torsion speed 0.5r/min ~ 2.0r/min

Standards QB/T 2171, QB/T 2172, QB/T 2173
Power 220 /110 V 50/60 Hz 4 A
Weight 90 Kg
Dimensions 480 x 420 x 580mm (L x W x H)

TF151 Velcro Tester

Velcro Tester, to determine the capability of Velcro used for shoes, garments, etc.
Cut the specimen 540mm by 20 or 50mm in dimension from the sample being tested into the wheel of Velcro tester to be fitted completely. To subject Velcro (hook & loop) to repeated stripping and peeling for a certain number of times. Use tensile machine (another purchase) to measure its peeling strength (AS) and shear strength (PA) after this test.

Features
- PLC closed-loop controller controlled. AC servomotor ensures accurate and durable running.
- Rigid construction and advanced AC servomotor ensures quiet running.
- Transparent plastic cover ensures safe and convenient operating.

Specifications
- Upper Roller Dia. 162+/- 0.5 mm, 70 mm in width
- Lower Roller Dia. 160+/- 0.5 mm, 70 mm in width
- Roller Speed 60+/-5 r/min
- Load 1+/-0.1 N/mm
- Number of test cycles 5,000
- Counter LCD display, 1- 9, 999 times, adjustable

Standards BS EN ISO 22776, DIN-3415, SATRA TM 123
Power 220 /110 V 50/60 Hz 3 A
Weight 105 Kg
Dimensions 450 x 540 x 550 mm (L x W x H)

TF152 Dynamic Seam Fatigue Tester

Dynamic Seam Fatigue Tester, to determine the strength of upholstery seam constructions covering a standard foam composite cushion by imposing a cyclic, impact and penetrating load.
A rubber-faced wheel of 127mm (5") diameter impacts the fabric from a height of 150mm (6") with a mass of 3.75 kg (8.25lbs), 25 times per minutes for 7000 cycles. Compressed air is required.
Dynamic Seam Fatigue Tester is 3 work positions, and 6 positions offered on request.

Specifications

- Testing frequency 25+/-2 cycle/min
- Testing cycles 7,000
- Impacting mass 3.75 kg
- Foam composite 228.5 x 280 x 178 mm
- Dimensions of sewn specimen 360 x 255mm
- Driving mode Pneumatic

Standards ASTM D4033
Power/ Air Supply 220 /110 V 50/60 Hz 0.4 ~ 0.7 Mpa
Weight 350 Kg
Dimensions 1600 x 860 x 1450mm (L x W x H)

TF152B Seat Seam Fatigue Tester

Seat Seam Fatigue Tester is mainly used to test the seam fatigue (dynamic or static) of automobile interior materials such as fabric or leather. This fatigue test is determined by simulating the real vibration when driving.
Colorful touch panel is equipped to set and control tests, and displays the test cycles, time, etc.
Precision guide rod and servo motor driving makes the movement uniform.
A transparent protective cover is equipped to observe the test process clearly, and machine stops once it is opened.
High quality metal paint shell, metal buttons with long life.
The 4 groups of samples can be tested at the same time, or individually.

Specifications

- Load 29.4N ± 0.2N (3 kgf)
- Test speed 30 cpm
- Test stroke 150 mm
- Work stations 4

Standards JASO M403, SES N3294, TSL2100G, SAE J1531, GMW3405
Power 220 /110 V 50/60 Hz
Weight 100Kg
Dimensions 940 x 350 x 500mm (L x W x H)

TF154 Woven Fabric Stretch Recovery Tester

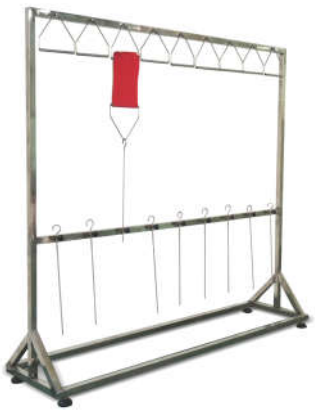
Woven Fabric Stretch Recovery Tester, to determine the stretch properties of fabrics woven from stretch yarns under a specified tension and extension.

Specifications

- Made of stainless steel
- 4 lb and 3 lb tension weights are offered

Standards ASTM D3107
Weight 55Kg
Dimensions 700 x 300 x 1200 mm (L x W x H)

TF155 Knitted Fabric Stretch Recovery Tester



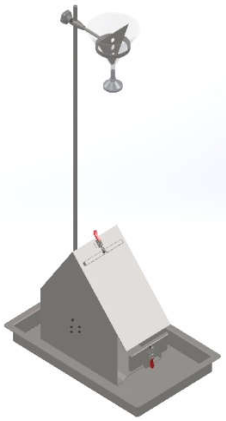
Knitted Fabric Stretch Recovery Tester, to determine the stretch properties of knitted fabrics from stretch yarns under a specified tension and extension, including constant load test frame and constant extension test frame.

Specifications

- Made of stainless steel
- Test station 9
- 18 hangers will be offered
- The width of hanger 140 mm
- Constant load test 1500 x 1300 x 50 mm (H x L x W)
- Constant extension test 1500 x 50 x 50 mm (H x L x W)
- 5 lb and 10 lb tension weights are offered

Standards ASTM D2594
Weight 50 Kg
Dimensions 2200 x 400 x 400 mm (Packing, H x L x W)

TF159 Impact Penetration Tester



Impact Penetration Tester, to determine the resistance of fabric to the penetration of water by impact, and thus can be used to predict the probable resistance of fabrics to rain penetration. It is especially suitable for measuring the penetration resistance of garment fabrics.

Specifications

- The size of the spray head 56mm diameter, the hole of spray head is 1mm diameter, 25 pcs.
- The distance from the bottom of spray head to the centre of specimen 600 mm
- The volume of tested water 500 ml
- The width of clamp 152 mm
- Angle 45°
- The specimen size 178 x 330 mm

Standards AATCC 42
Weight 18 Kg
Dimensions 340 x 540 x 1080 mm (L x W x H)

TF160 Spray Rating Tester

Spray Rating Tester, to determine the surface wetting resistance of fabrics, which may or may not have been given a water-resistant or water-repellent finish.
Spray rating tester consists of a metal framework allowing distilled water to be sprayed through a nozzle onto a test specimen at 45° and 150mm below the nozzle.

Specifications

- Nozzle 19 holes of Dia. 0.9mm
- Angle of holder 45°
- Holder Dia. 150mm, 150mm below the nozzle
- Measuring Cup 250m

Standards ISO 4920, AATCC 22, BS EN 24920, BS 3702, M/S P23/P133, NEXT 23
Weight 12 Kg
Dimensions 220 x 260 x 550mm (L x W x H)

TF161 Rain Tester

Rain Tester, to determine the penetration resistance of fabrics or composites at different intensities of water impact. Simulated rain horizontally impacts fabric samples mounted vertically in a stainless steel bath. Samples are backed with a standardized blotting paper, which is weighed before and after each test. The rain is formed by a column of water, which can be adjusted from 600mm to 2400mm.

Specifications

- Test dimensions 200 x 200mm
- Blotting paper dimensions 152 x 152mm
- Sample nip width 152mm
- Sample nip space between 165mm
- Sample nip dimensions 178 x 279mm
- Nozzle diameter 0.99 ± 0.013mm
- Nozzle space between sample 305mm

Optional order AATCC Blotting Paper 500 x 1000mm (20 x 40in) 25 Sheets

Standards AATCC 35, BS EN ISO 22958, GB/T 23321
Weight 139 Kg
Dimensions 460 x 460 x 3300mm (L x W x H)

TF167 Surface Water Absorption Tester

Surface Water Absorption Tester, to determine the ability of a terry fabric to rapidly absorb and retain liquid water from surfaces such as human skin, dishes, and furniture.

Specimens are placed at an angle on the base of the apparatus. After water flows down the surface of each specimen, the amount of water retained in each specimen is measured. Six specimens are tested, three on the face of the fabric and three on the back of the fabric. The six observations are averaged to determine the surface water absorption of the fabric.

Specifications

- Pour Spout 30+/-2mm (1.18 +/- 0.08 in.)
- Angle of hold 60°
- Time of water flow 50ml within 8s
- Water dropping height 6 +/- 4 mm (0.24 +/- 0.16 in.)

Standards ASTM D4772-2009, GB/T 22799-2009
Weight 10 Kg
Dimensions 360 x 260 x 650mm (L x W x H)

TF163E Hydrostatic Head Tester

Hydrostatic Head Tester is used for measures the resistance of a fabric to the penetration of water under hydrostatic pressure. It is applicable to all types of fabrics, including those treated with a water resistant or water repellent finish.

A test sample is placed on the clamping head; parameters of test is set on the Android based software on the Samsung pad; the system automatically start by pressing down the upper clamping arm; the system automatically adjust machine and shift nozzles if required; after a few seconds the test results is then displayed and excel report is generated; the reports can be output to a USB / SD card, or send to any network by WIFI connected.

Specifications

- Test pressure 0 ~ 5000mbar
- Measuring accuracy ± 0.5 % of displayed value ± 1 mbar
- Readability 0.1 mbar
- Pressure gradient 1~500mbar/min
- Test area 100 cm2 (10 cm2, 19.63 cm2, 26 cm2 and 28 cm2 optional)
- Maximum sample thickness 5mm
- Required compressed air supply 6~8 bar (clean and dry)

Standards GB/T 4744, AATCC 127, EN 20811, BS 2823, BS 3424-26 29A/29C, BS 3321, ISO 811, ISO 1420A, DIN 53886, INDA IST 80.4, JIS L 1,092 A, JIS L 1,092 B-b. NF G07-057, ERT-120-1, 160-0, EDANA 120.2-02, ISO 16603, ASTM F1670, YYT 0700, ASTM F903.

Power 220 /110 V 50/60 Hz
Weight 85 Kg
Dimensions 360 x 460 x 450 mm (L x W x H)

TF163D Hydrostatic Pressure Tester

Hydrostatic Pressure Tester, used to test waterproof or leakage of fiber, synthetic leather, wrapped paper, etc.
This tester tests samples by lifting a certain volume of water, at a speed of 1cm/second; until 3 drops of water appeared, stop the motor lifting; the height of the water in mm is recorded as the test result.
The test methods as below (i.e. get the average value of three operations, calculated to the first decimal).

Test Methods

- Leakage measurement to raise water to the certain height at specified speed, to measure the water volume (ml) leaked during certain time.
- Water pressure raise water at speed of 1cm/sec, until three locations of surface of specimen get water penetration, the height of water is recorded
- Fixed water pressure raise water position to certain height at speed of 1cm/sec. Then pause, immediately record the time (sec) when three locations of surface of specimen get water-penetration.

Specifications

- Specimen 20*20 cm
- Water column height 1800 mm
- Water level speed 1 cm/sec
- Dimension of test head 100 cm

Standards
AATCC 127, ISO 811, BS EN 20811/3321/3324 , DIN 53886 , JIS-L1092, JIS-1096, JIS-K6550

Power 220 /110 V 50/60 Hz

Weight 192 Kg

Dimensions 520 x 660 x 2550 mm (L x W x H)

TF164B Air Permeability Tester

Air Permeability Tester, to determine the resistance of fabrics (woven, knitted and non woven textile materials) to the passage of air (air flow) under constant pre-set air pressure while firmly clamped in the test rig of selected test head/area.

The specimen is loaded to the test area of the instrument easily by means of a automatic holder. By pressing down the holder to start the test. Air permeability tester equipped with a vacuum pump to draw air through an automatic interchangeable test head with a circular opening. The pre-selected test pressure is automatically maintained, and after a few seconds the air permeability of the test specimen is digitally displayed in the pre-selected unit of measure on the touch panel, or the next test nozzle required to be replaced will be displayed. After test the holder is released and the vacuum pump will be shut off.

Specifications

- Can be controlled by the touch panel
- Test result is displayed on touch panel, units can be shifted
- Equipped with printing function
- Equipped with analyse software.
- 11 nozzles are included
- Standard Test Heads 20cm2 and 38cm2
- Measuring Range 0.1~12000mm/s (L/m2.s)
- Test pressure 1 ~ 4000Pa
- Max thickness of specimen ≤ 8mm
- Measuring accuracy <+/-2%

Optional test heads 5cm2, 25cm2, 50cm2, 100cm2

Standards ASTM D737, ISO 9237/7231, BS 5636, JIS L 1096A, DIN 53887, EDANA 140.1, AFNOR G07-111, TAPPI T251, GB/T 5453, GB/T13764

Power 220 /110 V 50/60 Hz

Weight 120 Kg

Dimensions 600 x 700 x 1100mm (L x W x H)

TF164E Auto Air Permeability Tester

Auto Air Permeability Tester, is used to determine the air permeability of fabric totally automatically. With its wide measuring range, it is suitable for all kinds of knitted, woven, non-woven, coated fabrics, paper, film, leather, etc.

A test sample is placed on the clamping head; parameters of test are set on the Android based software on the Samsung pad connected with machine. By pressing down the upper clamping arm the system automatically starts, the system automatically adjusts machine and shift nozzles if required; after a few seconds the test results are then displayed and the excel report is generated, and the test results is displayed on the Samsung pad, can be exported to the computer as well when the computer is connected (Windows based software is available).

Specifications

- units can be shift mm/s, cfm, cm3/cm2/s, l/m2/s, l/dm2/min,m3/m2/min, m3/m2/h and dm3/s
- Test Heads 20cm2
- Test pressure 10 ~ 2,500 Pa
- Max thickness of specimen 0 ~ 10mm
- Measuring accuracy <+/-2%

Optional test heads 5cm2, 25cm2, 38cm2, 50cm2, 100cm2
Standards ASTM D737, ISO 9237, ISO 7231, BS 5636, JIS L 1096A, DIN 53887, EDANA 140.1, AFNOR G07-111, TAPPI T251, GB/T 5453, GB/T13764

Power 220 /110 V 50/60 Hz

Weight 110 Kg

Dimensions 400 x 920 x 1200 mm (L x W x H)

TF165 Water Vapour Permeability Tester

Water Vapour Permeability Tester, to determine the resistance of textiles and textile composites (particularly action wear fabrics) to water vapour penetration. Water vapour permeability tester consists of 8 containers with water reservoirs, a standard permeable fabric cover, sample holder ring and precision drive system.
Water vapour permeability tester should work in conditioning room or conditioning chamber. Wet-cup can be converted to do different test.

Specifications
- Rotation Speed 2 rpm
- Wet-Cup 8 Pcs
- Counter adjustable, automatically stop

Optional order Reference Fabric for BS7209

Standards ISO8096, BS 3424, BS 7209
Power 220 /110 V 50/60 Hz 3 A
Weight 55 Kg
Dimensions 350 x 380 x 310mm (L x W x H)

TF165B Water Vapour Permeability Tester

Water Vapour Permeability Tester, to determine the water vapour permeability of various textile and garment fabric, coating fabric, composite, sportswear and industrial fabrics.

This tester is equipped with touch panel to program and control the test. This machine combined the TF165 and a climatic test chamber, thus the water vapour test cups is placed in an accurately controlled conditioning chamber, making the test more stable and convenient.

Airflow speed, temperature (15 ~ 50oC +/- 0.1oC) and humidity (35% ~95% +/- 2%) are accurately controlled, giving accurate and repeatable test results.
Inner chamber is made of SUS316 stainless steel; LED lights are equipped to observer the test process.

Specifications
- Airflow speed 0.02 ~ 0.3m/s
- Temperature 15 ~ 50℃
- Humidity 35% ~ 95%

Standards ASTM E96, ISO 15496, BS 7209, JIS L1099, GB/T 12704
Power 220V 50/60 Hz
Weight 350 Kg
Dimensions 650 x 550 x 1450mm (L x W x H)

TF170 Steaming Cylinder

Steaming Cylinder, equipped with a Steam Generator. The steaming cylinder is used to determine the shrinkage of unstressed fabric samples subjected to steaming in a closed chamber. The Steaming Stability Template is suitable for using with steaming cylinders when testing fabrics for relaxation shrinkage, to mark the fabrics before testing using a benchmark of 250mm and to read shrinkage directly in percentage after testing.
Provided with a stainless steel fabric-supporting frame, it can accommodate 4 samples.

Specifications
- Automatic timing, 1-9999mins, stops steaming and warns if the set time met.
- Steaming generator is offered
- Equipped with pressure safety device
- Equipped with Exhauster and drainage device
- Steaming cylinder is made of stainless steel

Standards ISO 3005, BS 4323, IWTO 29-76, M&S P8, NEXT15
Power 220 V 50/60 Hz 8 A
Weight 60 Kg
Dimensions 450x520x420mm (L x W x H)

TF172A/B AATCC Standard Washer

AATCC Standard Washer, a top-loading home laundry washing machine. Selected and certified for AATCC Test methods requiring repeated home laundering (methods AATCC 88 B+C, 124, 130, 135, 142, 143, 150, 172, and 179). Available in US domestic and international electrical.

Models
TF172A AATCC Standard washer-Whirlpool
TF172B AATCC Standard Washer-Kenmore

Standards AATCC 88 B+C, 124, 130, 135, 142, 143, 150, 172, 179
Power 220 / 110 V 50 / 60 Hz
Weight 80 Kg
Dimensions 700 x 680 x 1200mm (L x W x H)

TF173A/B AATCC Standard Dryer

AATCC Standard Dryer, Front-loading dryer, used with standard washer. Selected and certified for AATCC Test methods requiring repeated home laundering (methods AATCC 88 B+C, 124, 130, 135, 142, 143, 150, 172, and 179). Available in US domestic and international electrical.

Model
TF173A AATCC Standard Dryer-Whirlpool
TF173B AATCC Standard Dryer-Kenmore

Standards AATCC 88B+C, 124, 130, 135, 142, 143, 150, 172, 179
Power 220 / 110 V 50/60 Hz
Weight 70 Kg
Dimensions 780 x 750 x 1200 mm (L x W x H)

TF174 Wascator FOM 71 CLS Lab Washer-extractor

Wascator FOM 71 CLS Lab Washer-extractor, standard reference washing machine. Microprocessor controlled, up to 999 washing and drying programs can be designed as required, input via the keyboard and stored in memory. The test programs for standard BS, ISO, and IWS are offered optionally on request.

Standards M&S P1, P1A, P3A, P12, P91, P99, P99A, P134
BS EN 25077/26330, ISO 5077/6330, IEC 456
Power 220 / 110 V 50/60 Hz
Weight 200 Kg
Dimensions 760 x 780 x 1600mm (L x W x H)

TF175 Standards Tumble Dryer

Standard Tumble Dryer, used for the test of drying process and of the drying procedures needed by other textiles, which are prescribed in the standard textiles test purposed household cleaning and drying procedures.

Specifications
- Type front-loading, horizontal drum
- Diameter drum φ58cm±1cm
- Drum volume 100L
- Revolution speed 50r/min
- Number of lift sheets 3pieces with 120° between each one
- Rated drying capacity 5kg
- Controlled air outlet temp. less than 80 deg.

Standards GB/T 8629, ISO 6330
Power 220 / 110 V 50/60 Hz 3KW
Weight 150 Kg
Dimensions 800 x 800 x 960mm (L x W x H)

TF176 Automatic Shrinkage Washer

Automatic Shrinkage Washer, used for testing the dimensional stability of fabrics, clothing and other textiles after washing. Rated loading capacity is 5+/-0.05kg; with touch screen control, it is a model with similar Functions of Wascator.

Specifications

- Interior rowing box diameter 51.5 ± 0.5 cm
- Interior rowing box depth 33.5 ± 0.5 cm
- Inside and outside cylinder radial distance 2.8 ± 0.1 cm
- Number of lift sheets 3 pieces
- Raised wing height 5 ± 0.5 cm
- Revolution speed Washing 52r/min, Drying 500±20r/min
- Water Level Control low level = 10cm, high level = 13cm
- Temperature Detection Room temp. ~ 99℃±1℃, readability 0.1℃
- Heating power 5.4 ± 2% KW
- Rated loading capacity 5 +/- 0.05kg
- Rotating Speed 30 ~ 800 r/min
- Interior rowing box vloume 70L

Standards ISO6330, ISO 5077, BS4923, FZ/T70009, EN25077, EN 26330, GB/T8629, GB/T8630, JIS 1909, M&S IWS

Power 220 / 110 V 50/60 Hz 6.5 kW
Weight 285 Kg
Dimensions 710 x 740 x 1200mm (L x W x H)

TF178 Shrinkage Template & Ruler

Shrinkage Template & Ruler, suitable for all shrinkage testing standards. With high transparent plexiglass plate and the unique design on appearance, it combines the different test standards in one template, including 500mm, 350mm, 250mm. Frame size is 610mm x 610mm; Shrinkage Scale is 0%~20%, and Stretch Scale is 0%~ 20%.

Specifications

- Dimension of template 250mm, 350mm, 500mm
- Shrinkage Scale 0%~20%
- Stretch Scale 0%~20%

Standards AATCC 135/150/160/179, BS EN 3759, ISO 3759, BS4931
Weight 5 Kg
Dimensions 650 x 650 x 50 mm (L x W x H)

TF177 Standard Dry-cleaning Machine

Standard Dry-cleaning Machine, used for physical index test of all kinds of fabrics and garments after they are washed by detergent and organic solvent and then dried by oven. The only one model that totally complied with all major Standards, to truly simulate the standard dry-cleaning condition.

Features

- 16 bit controller, Digital display and program-controlled, Program-controlled Air pressure valve, Multi failure protection and Alarm.
- 5 Built-in, fully-automatic test programs, 1 programmable test program.
- Total sealed pipeline system, Liquid cycle filter design, drying system uses active carbon filter.
- Working parts are made of stainless steel.
- Individual liquid adding tank, automatically measure and add liquid.

Specifications

- Rotating Cage diameter 650mm x length 320mm
- Capacity / Dried Weight 6 kg
- Washing speed 45 r/min
- Dewatering speed 450 r /min
- Drying time 4 ~ 60min
- Max. drying temperature 80 +/-2℃
- Noise ≤61dB (A)
- Capacity of distillation box 50L

Standards

ISO3175.1-1, ISO3175.1-2, AATCC 158, FZ80007.3, GB/T11401.1, FZ/T01083, GB/T 19981.2

Power 220 V 50/60 Hz 7.5KW
Weight 800 Kg
Dimensions 1400 x 1000 x 2000mm (L x W x H)

TF179 Printed Fabric Durability Tester

Printed Fabric Durability Tester, to determine the durability of garments and garment components, print durability, pleat retention, waddings and quilted waddings, cockling (differential shrinkage), flock retention, crinkle, seersucker and collars and cuffs. Test samples are immersed into the heated detergent and running machine for a specified time. The instrument is designed to meet the requirements of many leading retail stores standard garment and fabric durability test sspecifications.

Specification

- Rotation speed 560rpm +/-2%
- Detergent 40L
- Sample size 500 x 500 mm
- Test temp 60 oC

Standards M & S P5, P6, P7, C15

Power 220 V 50/60 Hz
Weight 130 Kg
Dimensions 700 x 680 x 850mm (L x W x H)

TF210 Martindale Abrasion Tester

Martindale Abrasion & Pilling Tester. To determine the abrasion and pilling resistance of all kinds of textile structures. Samples are rubbed against known abrasives at low pressures and in continuously changing directions. The amount of abrasion or pilling is compared against standard parameters.
The unique design of our Martindale abrasion tester allows removal of individual sample holders for examination without lifting the top motion plate. It provides individual counters and parking function, interval time settable and a large touch-screen display. Standard sample holders and 9 and 12kpa Weights are included.
The Martindale abrasion tester is available with 4, 6, 8 or 9 test positions.

Specifications

Drive system is PLC, programmable control with large touch-screen
Abrasion test
a) Max stroke of movement 60.5+/-0.5mm
b) Weight of holder and spindle 200+/-1g
Pilling test
a) Max stroke of movement 24+/-0.5mm
b) Weight of holder and spindle 155+/-1g

Included Accessories (1 for each station)

Abrasion test (To ISO 12947-1)
a) Mounting weight (2.5+/-0.5kg, for both abrasion and pilling test)
b) Abrasion tester holders (Dia. 38 mm)
c) Loading Weights (395+/-7g)
d) Loading Weights (595+/-7g)
Pilling Test (To ISO 12945-2)
a) Linear adaptor. To convert to straight-line motion.
b) Sample Retaining Rings for pilling test
c) Pilling test holders (Dia. 90mm)
d) Loading Weights (260+/-1g)
1 Auxiliary device for specimen mounting.
1 Drawing pen
1 set of abradent fabric, wool felt, backing foam for each work station.

Standards

EN ISO 12945-2/12947-1/12947-2/12947-3/12947-4, ISO 20344, ASTM 4966/4970, BS EN 388/530, BS 3424/5690, JIS L1096, DIN 53863/53865, GB/T 13775, SATRA TM31, IS 12673, IWSTM 112/196, IWTO 40-88, SFS 4328, NEXT 16, GMW15651, ISO 5470-2, M&S 17 / 19 / 19C, Next 18/18a/18b, GB/T 4802.2/21196-1/21196-2, Wool Mark TM 112/196

Optional orders

a) Specimen Cutter. (Dia. 38mm) with cutting mat and spare blades.
b) Abrasive Fabric & Backing Felt Cutter. (Dia. 140mm) with cutting mat and spare blades.
c) Standard Wool Abrasive Fabric SM25. 1.6M wide x 5M length – For abrasion test and pilling test(when automatic)
d) Standard Backing Foam. Width 1.5M, Length 0.5M.
e) Standard Backing Wool Felt Piece (woven) 1m x 1.5m.
f) EMPA Photographic Standards for Pilling Test (3 x 4 knitted)
g) EMPA Photographic Standards for Pilling Test (3 x 4 woven)
h) SM 50 Photographs for Pilling Test IWS + ASTM.

Power 220 /110 V 50/60 Hz
Weight 155 Kg
Dimensions 400 x 920 x 1200 mm (L x W x H)

TF211 Pilliing Assessment Viewer

Pilling Assessment Viewer / Viewing cabinet, suitable for all standards where the assessment of pilling on fabrics is necessary, either against control fabrics or photographs.

The viewer is suitable for the following tests: Martindale Pilling, Random Tumble Pilling, ICI Pilling, ICI Snagging and Brush/Sponge Pilling.

Specifications
- Observe zone 340 x 165 x 240 mm
- Light source CWF (CWF lamp)

Standards ISO 12945, ASTM D3512/ D4970/5362, IWSTM 152, BS5811
Power 220 /110 V 50/60 Hz 1 A
Weight 8 Kg
Dimensions 340 x 240 x 280mm (L x W x H)

TF211B Auto Pilling Assessment System

Auto Pilling Assessment System is used to automatically determine the surface fuzzing and pilling properties of textiles.

General pilling evaluation is checked and assessed by the checker; the grade of pilling is not comparable. This automatic pilling assessing system is equipped with a digital camera to scan the sample. The windows based software will provide analysis and results, and the printer directly prints the data. The evaluation result is accurate and at a high reliability.

Specifications
- Sample size 160 x 150 mm
- Moving distance 0 ~ 160 mm

Standards ISO 12945, ASTM D3512/ D4970/5362, IWSTM 152, BS5811
Power 220 /110 V 50/60 Hz
Weight 60 Kg
Dimensions 480 x 460 x 600mm (L x W x H)

TF212 Oscillatory / Wyzenbeek Abrasion Tester

Wyzenbeek Abrasion Tester, made of modern ergonomic design, is to determine the abrasion resistance of fabrics when rubbed against a standard abrasive or a wire mesh screen with a backward and forward motion over a curved surface. Wyzenbeek abrasion tester applies to automotive and furniture industry fabric manufacturers working to US Standards Motor driven with 4 abrasion heads and electronic digital counter to control the number of cycles.

A set of suction manifolds and an auxiliary vacuum cleaner are included, but consumables are not included.

Specifications
- Suction manifolds to connect to auxiliary vacuum cleaner
- Sealed transmission drive for quieter operation
- Testing stations 4 groups
- Oscillatory frequency 90 CPM
- Oscillatory arc 76 mm
- Dimension of sample 245 x 73 mm
- Tension on sample 4 lbf (17.8N), adjustable
- Load on sample 3 lbf (13.4N), adjustable

Consumables (Optional order**)**
- Rubber Pads for Wyzenbeek (pack of 8)
- Wire mesh screens for Wyzenbeek (pack of 4)
- Abrasive Fabric #10 Cotton Duck – 60in x 5yds

Standards ASTM D4157
Power 220 /110 V 50/60 Hz 3 A
Weight 140 Kg
Dimensions 500 x 500 x 500 mm (L x W x H)

TF213 Universal Wear Tester

Universal Wear Tester, to determine the wear and abrasion resistance of fabric used in clothing, footwear and industrials. Universal wear tester supplies with surface abrasion head (inflated diaphragm method) and Flex abrasion head as well as necessary weights and blades. Accessories are available on request for conducting frosting, pilling and edge abrasion tests.

Universal wear tester fitted with built-in timer and mechanical cycle counter; repeatable and reproducible testing is ensured by consistent motor speed providing 120 double strokes per minute of 25mm (1in) stroke length. Improved air injection system for more uniform inflation of the diaphragm used in surface abrasion testing, and a superior clamping mechanism for repeatable specimen tensioning.

Specifications

- Rotation Speed 120rpm
- Measuring Range 25mm
- Counter
- Depth Abrasion kits
- Surface Abrasion kits
- Flex Abrasion kits

Optional order

- Frosting Attachment
- Edge and Fold Abrasion Clamp
- Elastomeric Friction Pad and Base Pad
- Photographic Standards for ASTM D 3514
- Verification ribbon 50yd / roll
- Abrasive '0' 50 yd/ roll
- Abrasive '600A' 50 yd/ roll
- Abrasive '320J' 50 yd/ roll

Standards
ASTM D3514/D3885/D3886, AATCC 119/120, FTMS191/5300/5302, FORD EFB 15J2/BN 112-01

Power 220 /110 V 50/60 Hz

Weight 80 Kg

Dimensions 680 x 570 x 400 mm (L x W x H)

TF214 Taber Abrasion Tester

Taber Abrasion Tester (Taber Abraser). To determine the wear resistance of all kinds of structures including fabrics, leather and rubber, paper, metals, paints, plated surfaces, coated materials, glass, etc.

Taber Abrasion Tester (Taber Abraser) uses the X pattern of abrasion produced by a rotary action of a pair of abrasive wheels. Taber abraser supplies with a full range of auxiliary weights, specimen holders. The abrasive wheels and wheel refacer are offered on request.

Specifications

- Grinding Wheel Dia. 2inch
- Wear Round Centre Spacing 53.2mm
- Gyration Speed 60±1 rpm
- Counter 0-999,999 times
- Weights 2 pcs 250g, 2 pcs 750g (used to produce 250g, 500g, 1000g mass on the specimen)

Optional order

- Grinding Wheel CS – 17 / CS - 10 or others
- Paster S - 36
- Sandpaper S - 11

Standards ISO 5470, ASTM D3884, FED.CCC.5306 / 5309, TAPPI T476, DIN 53754 / 53799 / 53109, SAE J948

Power 220 /110 V 50/60 Hz

Weight 60 Kg

Dimensions 530 x 380 x 380 mm (L x W x H)

TF215 DIN Abrasion Tester

DIN Abrasion Tester, to determine abrasion of flexible materials, such as rubber, tires, transmission belts, soles, leather, etc. The abrasion tester is provided with a wide testing area to meet the most requests. Additional balance is required.

Specifications

- Load Weight 5N,10N
- Roll Dim Dia. 150 x Length 460mm
- Rotation speed 40rpm
- Holder Moving distance 4.2mm each rotation

Standards DIN 53516, ISO 4649, BS EN 12770, BS-903, SATRA TM174, GB/T9867
Power 220 /110 V 50/60 Hz 3 A
Weight 80 Kg
Dimensions 700 x 300 x 300mm (L x W x H)

TF216 MIE Abrasion Tester

MIE Abrasion Tester, to determine the wear resistance of textiles used for the automobile such as the interior material made of woven, knit, composite, coated fabrics by rubbing against an abrasive cloth.
This abrasion tester is mostly used for Renault and Peugeot
.

Specifications

- 2 x 2 test positions. Each pair of tests runs at the same time.
- The 2 couples can perform tests independently or simultaneously.
- Large Touch panel to program or monitor the duration of each test station test program for each cycle speed, etc.
- Rubbing table 90 +/-1 width
- Rubbing stroke 150mm
- Rubbing speed 30 cpm

Standards	NF G 37 110, Renault - PSA D44 1073, RNRU 1073, SNCF 284 F
Power	220 /110 V 50/60 Hz 3 A
Weight	60 Kg
Dimensions	500 x 450x 480mm (L x W x H)

TF220 ICI Mace Snag Tester

ICI Mace Snag Tester. To determine the tendency of fabrics to snag (pull yarn loops from fabric) in normal wear (mace snag). Provided with 4 rotating test cylinders, fitted with sleeves of test fabric, mace balls with tungsten carbide points and controlled by a predetermined electronic counter.
A set of 4 felt sleeves are included.

Specifications

- Snag Mace Diameter 31.8mm
- Mace Weight 135g
- Mace Prominent length 9.5mm
- Rotation Speed 60+/-2rpm

Optional order

- Tungsten Carbide Points (Pack of 12)
- Felt Sleeves (Pack of 4)
- Snagging Photographs

Standards	ASTM D3939, JIS L1058, GB/T 11047, MN405E
Power	220 /110 V 50/60 Hz
Weight	88 Kg
Dimensions	700 x 450 x 400mm (L x W x H)

TF221 Bean Bag Snag Tester

Bean Bag Snag Tester, to determine the snagging and picking resistance of knitted and woven fabrics by tumbling fabrics pillows containing a weighted bean bag within two separate test cylinders.

The bean bag snagging tester is provided with eight pinned bars, rotating at 20RPM for 100 revolutions. Provided with predetermined electronic counter.

Specifications

- Rotation speed 20r/min
- Work stations 2
- Size of cylinder Dia. 200mm
- Pinned bars 8 pcs / cylinder
- Needles 9 pcs / pinned bar,
- Bean bag 450 g

Standards	ASTM D5362, JIS L1058
Power	220 /110 V 50/60 Hz 3 A
Weight	60 Kg
Dimensions	480 x 380 x 390mm (L x W x H)

TF222 Brush or Sponge Pilling Tester

Brush or Sponge Pilling Tester, to determine the pilling propensity and simulate normal wear of knitted and woven fabrics used in apparel and automotive interiors by brush and/or sponging specimens together in a circular motion to form pills. Specimens are evaluated under standard lighting conditions using a pilling assessment viewer, light cabinet or similar, against users' standard fabrics or pilling photographs.
A set of 8 standard (made in USA) brush is included.

Specification

- Circle sample holder 660g
- Height of Nylon brush 25.4mm
- Consists of 6 holders with polyurethane foam, rubber rings, sandpaper
- Rotation speed 58 r/min
- Sponge dimension 51 x 102 x 152 mm (optional)

Optional order

- Kit for GM9652P adds 6 square sample holders and automatic cycle controller
- Kit for FORD BN-108-03 adds 6 square sample holders and special sponge board
- Kit for FORD BN12-4 including adapter board, 3 square specimen holder

Standards ASTM D3511, FORD BN12-4/108-03, GM 9652P

Power 220 /110 V 50/60 Hz
Weight 95 Kg
Dimensions 920 x 400 x 320mm (L x W x H)

TF223 ICI Pilling and Snagging Tester

ICI Pilling and Snagging Tester / Pilling Box. To rapidly replicate pilling or snagging on fabrics in a fraction of the time due to normal wear.
ICI pilling and snagging tester uses a universal drive system with 2 or 4 position, electronic digital counter, and sample mounting fixture. The machine accepts ICI Pilling boxes and ICI pilling drums / snagging boxes and snagging drums.

Specifications

- Rotation Speed 60 +/ -2 rpm, adjustable
- Control Mode Single chip control
- Display LCD

Optional order

- Pilling Assessment Viewer
- Set of 5 Photographic Standards
- Mounting Jig (used to install specimens easily)
- Cork liner
- Rubber tube

Standards ISO12945-1, BS 5811, BS 8479, JIS 1058, JIS L1076, NEXT 19, IWSTM152, M&S P18, P19, P21A,

Power 220 /110 V 50/60 Hz
Weight 125 Kg
Dimensions 800 x 500 x 600 mm (L x W x H)

TF224 Random Tumble Pilling Tester

Random Tumble Pilling Tester, to determine the pilling and fuzzing characteristics of textile fabrics.
Random Tumble Pilling Tester uses stainless steel impellers that rotate within individually lit aluminum chambers constantly tumbling test fabrics against cork liners for a pre-determined time controlled by a timer and audible alarm.
Compressed air is also injected into the chamber to assist in the tumbling action. With 2 or 4 pilling test chambers. Laboratory standard compressed air supply is required.

Specifications

- Size of Testing cylinder Dia. 145mm
- Rotation speed 1200r/min

Optional order

- Cork Liner (Pack of 50)
- Cotton Sliver (pack)
- Photographic Standards (Set of 5)

Standards ASTM D3512, DIN53867, JIS L 1076

Power 220 /110 V 50/60 Hz
Weight 70 Kg - 2 Stations 100kg - 4 stations
Dimensions 530 x 380 x 750 mm (L x W x H)

TF225 Circular Locus Tester

Circular Locus Tester, to determine surface deterioration and quality of fabrics (wool, chemical fiber, mixed, kitted and woven fabrics). Using an active friction system, fabric is rubbed against a nylon brush and abrasive or an abrasive only under controlled conditions. Results of the test are achieved in minutes. The relative motion of the locus specimen grip and the abrasive platform is a circle with a relative speed of 60+/-1 r/min. The grip offers pressure to the specimen which is adjustable with a tolerance of +/-1%. For added control and safety, the machine is equipped with a self-stop switch.

Specifications

- Test motion — Circular Locus of Dia. 40mm
- Test speed — 60 ± 1 r/min
- Height of brush — 2 ~ 12mm, adjustable
- Pressure on specimen — 490cN, 590cN, 780cN,.
- Dimension of specimen — Dia. 113±0.5mm (100cm2)
- Counter — 1 ~ 9,999 times, stops automatically

Optional orders

- Standard Abradant gabardine
- Standard Backing Foam
- Standard Brush Set

Standards GB/T 4802.1
Power 220 /110 V 50/60 Hz
Weight 50 Kg
Dimensions 550 x 260 x 380mm (L x W x H)

TF226 AATCC Accelerotor

AATCC Accelerotor, to rapidly determine abrasion resistance of flexible materials including textiles, paper, leather and plastics in both wet and dry conditions. Samples are rapidly tumbled within a cylindrical test chamber lined with an appropriate abrasion material. The tumbling action is provided by a propeller shaped rotor for a predetermined time at a predetermined speed, wet and dry.

The abrasion resistance is evaluated by determining the weight loss of the specimen or grabbing strength loss of the specimen when broken at an abraded fold line.

Specifications

- Test speed — 3000 r/min
- S-shape rotor — 114mm.
- Test cylinder — Dia 140mm, 70mm depth.
- Timer — 0.1s ~ 99h, stops automatically

Standards AATCC 93, M&S P26 / P53, NEXT31
Power 220 /110 V 50/60 Hz 3A
Weight 26 Kg
Dimensions 480 x 220 x 320mm (L x W x H)

TF228 Schopper Abrasion Tester

Schopper Abrasion Tester, to evaluate the abrasion resistance of automotive trim materials and textile fabrics under tension using a rotary abrasion test.

Put the sample in plane with abrasion block, the test is performed by exerting a rotating action of friction, with friction area of 50 cm2.

The Schopper Abrasion Tester can be used to determine the appearance changes of samples after the friction or wear test.

The friction head can be replaced to meet the requirements of different testing standards; The high sensitivity of the balance bar ensures the error of the sample test very low, equipped with special sample mounting rack to conveniently mount samples.

Specifications

- Test area — 50 cm2
- Shift direction — automatically after 100 cycles of rotation
- Obtuse cone — opening is 166 degrees
- Rotation speed — 75 rpm

Standards
DIN 53863.2, GME 60345, GMW 3283, VW/Audi Zentral - Norm PV 3907, PV 3908

Power 220 /110 V 50/60 Hz
Weight 80 Kg
Dimensions 460 x 560 x 510mm (L x W x H)

Fire Test

TF310 45 Degree Flammability Tester

45 Degree Flammability Tester, to determine fabric flammability (fabric burning test) under controlled conditions. Automatic igniter is equipped to ensure the 45 degree fabric flammability tester safe and easy to operate.

Stainless steel test cabinet with glass observation panel provides with automatic timing of flame spread in 0.1-second increments from ignition. Brushing Device is included.

Specifications

- Time Display and accuracy 0-999.9s, 0.1s
- Ignition time 1 +/- 0.05s
- Dimension of holder outside 205 x 76 mm, interior 165 x 40
- Distance from nozzle to specimen 8mm

Included Accessories

- 1 Brushing device
- 1 No. 50 sewing thread
- 5 sets of sample holder

Standards ASTM D1230, FTMS191-5908, 16 CFR -1610, CALIF TB117

Power 220 /110 V 50/60 Hz 2 A
Weight 35 Kg
Dimensions 400 x 300 x 500mm (L x W x H)

TF310C Dry Cleaning and Washing Cylinder

Dry Cleaning and Washing Cylinder, to determine color fastness to dry-cleaning and chlorinated pool water (AATCC 162), is applied to prepare samples for flammability testing of standard 16CFR-1610. Comprises stainless steel rotating test chamber of 7650ml capacity, variable speed drive with digital timer and displays. A drain valve is equipped in the bottom of the cylinder.

Specifications

- Angle of cylinder axis 50
- Stainless steel made
- Rotation speed 45 ~ 50rpm
- Counter 1-9999mins, automatically stops

Standards AATCC 162 , 16 CFR Part 1610

Power 220 V 50/60 Hz 4 A
Weight 70 Kg
Dimensions 650 x 400 x 550mm (L x W x H)

TF311 Horizontal Flammability Tester

Horizontal Flammability Tester, to determine the comparative burn rates and burn resistance of textiles, particularly those for automotive interior use. Automatic igniter is equipped to ensure the horizontal flammability tester is safe and easy to operate, comprising draft free stainless steel cabinet with observation window, sample holder and door mounted burner.

Specifications

- Fire nozzle dia. 9.5mm
- Fire height 38mm+/-2
- Sample clamp 360 x 100mm / Interior dimension 330x50mm
- The sample below 25mm pitch between metal wire is 25mm
- Marked line Starting point 38mm / End point 292mm from Ignition point
- Nozzle to Sample 19mm

Standards ISO 3795, FMVSS 302, DIN 75200, SAE J369, ASTM D5132, JIS D1201, BSAU 1690, GB 8410, PSA-Renault standard D45 1333

Power 220 /110 V 50/60 Hz 2 A
Weight 45 Kg
Dimensions 460 x 200 x 400mm (L x W x H)

TF312 Vertical Flammability Chamber

Vertical Flammability Chamber, for measuring the vertical flame spread of children's sleepwear, fabrics (fabric burn test), and other textile materials or resilient filling materials used in upholstered furniture.

The burner ignites the specimen automatically, and ignition time is programmable; after-flame time and afterglow time are timed automatically and shown on the display. User-friendly design of the control panel, Touch screen is equipped to make the operation conveniently, the test results are displayed on the screen after test.

Comprises a draft free stainless steel flammability chamber with observation window for easy test viewing. Specimen holders, burner and associated hardware are dependent on the test standard and must be specified.

Specifications

- System and Display — Programmable PLC and touch screen controls Time Display and accuracy 0-999.9s, 0.1s
- Ignition time — 12+/-2 s or 3+/-0.2 s
- Burner size — Dia. 10mm / 11mm x barrel length 76+/-6mm
- burner to specimen — 19 or 17 mm
- Dimension of holder — outside 442 x 76 / 442 x 89mm, interior 356x51 mm
- Timing — PLC controlled

Optional Testing Kits

- FTMS 191-5903 (fabric)
- DOC FF3/71 Children pyjamas / CPAI 84 Camping tentage material
- CALIF TB-117 Resilient Filling Materials Vertical

Standards ASTM D6413, CALIF TB117, DOC-FF 3/71, 16CFR Parts1615/1616, FTMS 191-5903, CPAI 84

Power 220 /110 V 50/60 Hz

Weight 65 Kg

Dimensions 570 x 380 x 850 mm (L x W x H)

TF313 Surface Flash Tester

Surface Flash Tester. The rapid spread of flame over the surface of the material without ignition of its basic structure, is usually applied to pile or fur fabrics. This flammability tester is safe and easy to operate. Swiveling butane burner is traversed across the face of the fabric to determine whether surface flash occurs and to record any damage to the base fabric.

Automatic gas and timing control system includes solenoid control gas valve and automatic ignition timer and controls.

Specifications

- Nozzle moving speed — 150+/-5 mm/s
- Nozzle moving distance — ≥300mm
- Fire nozzle size — complies with ISO 6941
- Testing height of fur — 0-70mm
- Fire Height — 0-60mm (adjustable)

Standards BS 4569

Power 220 /110 V 50/60 Hz

Weight 45 Kg

Dimensions 450 x 400 x 300 mm (L x W x H)

TT200 Toy Flammability Tester

Toy Flammability Tester, to determine flammability resistance of finery or toy and children clothing. The toy flammability tester is mainly for evaluating the burning speed and time of the following kinds of toys or children stuff.

- Toys to be worn on the head, such as beards, wig and mask etc.
- Toy disguise costumes and toys intended to be worn by a child in play, such as cowboy suits, nurse's outfits and long flowing capes etc.
- Toys intended to be entered by a child, such as toy tents, puppet theatres, wigwams and play tunnels.
- Soft filled toys (animals and dolls, etc.) with a piled or textile surface.
- System and Display: Programmable PLC system to control automatically, text display

Specifications

- Time display and accuracy — 0-999.9s,0.1s
- Burner size — according to ISO 6941
- Burner can be positioned to vertical or 45 degree.
- Equipped with U-shape holder and hanging holder
- PLC controlled

Standards BS EN 71-2

Power 220 /110 V 50/60 Hz

Weight 90 Kg

Dimensions 800 x 600 x 650mm (L x W x H)

TF317 Carpet Flammability Tester

Carpet Flammability tester is used to test the effects of a small source of ignition on floor coverings. Carpet flammability tester can be used for either hot metal nut test (BS 4790) and Methenamine tablet test (ISO 6925, BS 6307 and GB/T 11049).

- Test methods (Hot metal nut method, BS 4790)

The stainless steel nut is heated to 900℃ in a muffle furnace, place specimen on the bottom of the test chamber and the clamping ring is placed on the specimen, use crucible tongs to place the heated nut in the center of the ring, remove the nut in 30s and a measurement of spreading of the ignition on the sample is made to evaluate the flammability of carpet.

- Test methods (Methenamine tablet method, ISO 6925, BS 6307)

Place the conditioned specimen on the removable base inside the test chamber and the metal plate with a circular cut-out is placed on the specimen, the tablet is placed at the centre of the specimen and ignited. After the flame has extinguished, measurements are made to assess the effect on the carpet.

Specifications
- Complete with measuring grid and clamping ring
- Sliding panel for ease access
- Angled mirror for convenient viewing
- Applicable to 2 different tests
- Enclosed unit for optimum safetyf

Optional order
- Muffle furnace
- M16 nut
- Methanamine tablets

Standards	ISO 6925, BS 4790, BS 6307, CFR 1630/1631, GB/T 11049, CPAI 84, CGSB standard 4-GP-2
Weight	40 Kg
Dimensions	500 x 500 x 850 mm (L x W x H)

TF316 Blanket Flammability Tester

Blanket Flammability Tester, to determine the ignition resistance property of blanket fabrics and surface flame spread performance of fabric. A standardized flame is applied to the surface of specimen for a special time under controlled conditions, and burning, changing, or discoloration of a paper monitor is noted to classify flammability of tested fabric.

Specifications
- Stainless steel test cabinet, equipped with transparent viewing window
- 18# needle flame, flame length adjustable
- Igniting time pre-set freely
- Timer accuracy up to 0.01 second

Included Accessories
- 5 sets of Sample holders
- 1 set of Brushing device
- 1 Sample cutting template
- 1 Paper monitor cutting template
- 1 Flame length gage
- 1 Fire nozzle position gage
- 1 set of Micro-stove for gas supply

Standards ASTM D4151

Power	220 /110 V 50/60 Hz
Weight	40 Kg
Dimensions	400 x 280 x 500 mm (L x W x H)

TF318 SPI Flammability Tester (Vinyl Material)

SPI Flammability Tester (Vinyl Material), to determine the ignition properties of vinyl plastic film material according to CFR 16 Part 1611 – U.S.A. Flammable Fabrics Act for flammability of apparel vinyl plastic film.
The rate of burning shall not exceed 1.2 in./s as judged by the average of five determinations lengthwise and five determinations transverse to the direction of processing, when specimen is placed at an angle of 45 degree and exposed to the standardized flame (22# fire nozzle, 1/2 inch. In length).

Specifications
- The most advanced thread locking device and sample holder save 80% of operation time that faster than other suppliers' design
- Equipped with photoelectricity sensor accurately and automatically record burning time with no damage ensures 5 years life or longer
- Timer accuracy up to 0.01 second;
- 22# needle flame, 9/16inch from the specimen, flame length adjusted by flow-valve;
- Timing distance of burning 6 inch

Standards CFR 16 Part 1611

Power	220 /110 V 50/60 Hz
Weight	45 Kg
Dimensions	500 x 450 x 65 mm (L x W x H)

TF319 Multi-purpose Flammability Tester

Multi-purpose Flammability Tester, to determine the flammability resistance of textile fabrics and for the flammability test of toys and toy materials.
Its vertical test frame with changeable specimen holders and burner covers offer a wide range of vertical oriented textile fabrics. This machine meet almost all the BS, EN, ISO and other similar standards which is defined as a test method that a vertical oriented fabric subject to a small flame.

Specifications
- Meets most vertical oriented tests
- Programmable PLC system, optical scanning devices for threads breaking detection, timing range 0-999.9s and accuracy 0.1s
- Automatic flame ignition and flame , automatic gas open / off.
- Automatic change for butane gas and propane gas.
- Easy-set device for burner position (surface & edge ignition, toys test)
- Detachable controller ensures safety of operator
- interchangeable, precision test frames for different standards
- Vertical and horizontal marker threads
- Tray for filter paper and test debris

Optional order
- Radiator Assembly for BS EN 13772
- Burner and sample holder for BS 5438 - 1976
- Test frame holder for toys test of EN71 - 2

Standards	BS EN ISO 6940 (1995&2004) / 6941 (1995 & 2003), BS EN ISO 15025, BS EN 1101 / 1102 / 1103, BS EN 14878, BS 5438 1989,
Power	220 /110 V 50/60 Hz
Weight	90 Kg
Dimensions	700 x 600 x 1030 mm (L x W x H)

TF320 NFPA 701-1 Flammability Tester

NFPA 701-1 Flammability Tester, to determine the ignition resistance properties of draperies and other hanging fabrics according to test method NFPA 701#1, and it is suitable for single-layer or multi-layer fabrics, but not suitable for fabrics with density larger than 700g/m2 (21oz/yd2).

Specifications
- Open-type burning chamber structure;
- Chamber body in calcium silicate board, and wrapped by stainless steel external;
- Standard Maker laboratory burner;
- Record burning time automatically;
- Auto-ignition mode to avoid operative error;
- Timer accuracy up to 0.1second;
- Provide with a standard specimen holder.

Standards	NFPA 701-2004 Test Method 1
Power	220 /110 V 50/60 Hz
Weight	100 Kg
Dimensions	900 x 510 x 720mm (L x W x H)

TF321 NFPA 701-2 Flammability Tester

NFPA 701-2 Flammability Tester, to determine the ignition resistance properties of draperies and other hanging fabrics according to test method NFPA 701#2, and it is suitable for single-layer or multi-layer fabrics, fabrics with density larger than 700g/m2 (21oz/yd2), and fabrics coating with polyethylene, etc.

Specifications
- Stainless steel test cabinet;
- Provide with stainless steel metal wire;
- Bunsen burner as per requirements of test standard ASTM D5025
- 25" angle Bunsen burner with auto timer;
- Pre-set test time;
- Auto ignite mode and extinguishment mode;
- Flame height controlled by needle valve.

Standards	NFPA 701-2004/2010 Test Method 2.
Power	220 /110 V 50/60 Hz 3 A
Weight	110 Kg
Dimensions	440 x 410 x 2500mm (L x W x H)

TF322 Upholstery Flammability Test Rig

Upholstery Flammability Test Rig, to determine the ignition resistance properties of material combinations for upholstered seating. The test rigs are covered with the standard foam and the fabric under test. The assembly is then ignited using one of the standard ignition sources and the combustion process is monitored.

Includes large and small test rig, timer, flow meter and burner tube.
Optional order includes foam pads, wooden cribs, cutting templates, and standard cigarettes.

Standards BS 5852 Part 1 / Part 2, ISO 8191 Part 1 / Part 2, EN1021-1
Weight 22 Kg
Dimensions 450 x 300 x 450mm (L x W x H)

TF323 Sleeping Bag Flammability Tester

Sleeping Bag Flammability Tester, to determine the flammability resistance of sleeping bag. Both manual testing method and automatic testing method can be performed. Flame height can be adjusted through gas valve provided.
Ten specimens are cut from individual sleeping bags or a physically accurate facsimile. A standardized flame is applied to the folded edge for a specified time under controlled conditions and the burn rate is calculated to determine if the specimens meet specification requirements.

Specifications

- Stainless steel test chamber (Includes glass viewing windows)
- Stainless steel support frame
- Sample clamp with U-shaped
- #50 White mercerized cotton thread
- Burner diameter 0.90+-0.03mm
- Burner length 1.60+-0.05mm
- Burner tube inside diameter 10mm
- Burner tube length 38mm
- Weight hammer 2

Standards ASTM F1955, CPAI 75

Power 220 /110 V 50/60 Hz
Weight 90 Kg
Dimensions 800 x 720 x 760mm (L x W x H)

TF328 UL94 Horizontal & Vertical Flammability Tester

UL94 Horizontal &Vertical Flammability Tester, used to determine the flammability of plastic materials for parts in devices and appliances. The apparatus is supplied as a complete system incorporating all the features necessary for ease of use safety. It conforms to all five UL 94 horizontal and vertical burner tests and associated ASTM international standards.

Specifications and Features

- A bench imounted draft free combustion chamber having a large inside volume of 1.0m3 and fitted with an interior light and exhaust fan to enable simple evacuation of combustion products.
- Large door and window made from toughened safety glass giving a generous view of the specimen during a test.
- Specimen holders
- Fully adjustable horizontal and vertical specimen supports.
- A burner in compliance with ASTM D 5025, with simple angle adjustment (0°, 20°, 45°) and precision gas control system including gas flow meter, pressure regulator and pressure gauge.
- Two access ports enabling easy entry to the chamber for movement of the burner and specimen.
- A burner wing tip.
- Three digital test duration timers for accurate but simplified operation

Standards UL HB, UL94 V0, V1, V2, 5VA, 5VB, VTM-0, VTM-1, VTM-2, HF-1, HF-2, HBF. IEC 60695-11-10, 60707, ISO 1210, 9770, 9772, 9773, GB/T2408, 8332.

Power 220 /110 V 50/60 Hz
Weight 180 Kg
Dimensions 1200 x 600 x 1400mm (L x W x H)

TF329 Heating Resistance Tester

Heating Protection Tester, to determine the heating resistance and insulation performance of protective clothing and fabrics when exposed to the heat source of radiation and convection. The heat source and radiator can be manually adjusted, easy to operate, equipped with the heat calibration calibrator which ensures the accuracy of the test results.

Consists of 1 group radiation heat source and 2 convection heat sources, and the radiation heat source consists of 9 infrared quartz tube, whilst the convection heat source consists of two standard Meker burner.

- Heat flux range </= 100KW/m -
- Sample size 150 mm x 150 mm
- Combustion gas propane
- Range of flowmeter 6L/min
- measuring range of copper calorimeter: 0o ~ 200o degrees, resolution 0.1o, accuracy 0.2o

Standards
NFPA 1971, ASTM D4018, GB 8965.1-2009, ISO17492, NFPA2112, ASTMF2703

Power 220 /110 V 50/60 Hz
Weight 50 Kg
Dimensions 800 x 500 x 570mm (L x W x H)

TF335 Oxygen Index Tester

Oxygen Index Tester, to determine the minimum oxygen concentration required for the combustion of a sample in the mixed gas of oxygen and nitrogen under the standard conditions.

Specification
- Oxygen concentration range 0 ~ 85%
- Flow range 1.0 ~ 10.0 L/min

Oxygen sensor
- Model MOT500-02
- Fixed type
- Range 0 ~ 100% VOL
- Resolution 0.01% VOL
- Accuracy 3 %
- LCD display
- 4 - 20MA / RS485 output

Standards ISO 4589-2, ASTM D2863, GB/T2406, GB/T5454

Power 220 /110 V 50/60 Hz 40W
Weight 90 Kg
Dimensions 350 x 560 x 766 (L x W x H, mm)

TF346 Glow Wire Tester

Glow Wire Tester, to determine the fire hazard of electrical parts and components subjected to malfunctions such as overload, short circuit, poor connection, or others that may ignite and spread the flame to the rest of the product.

The Glow-Wire Tester simulates an overloaded resistor or other ignition source and applies heat to the specimen for a short period of time, and simulates as closely as possible actual effects occurring in practice.

A temperature controller is fitted with the thermocouple supplied, accurately measuring the glow wire temperature. The electrical circuit of the control unit is fully protected by fuses and a miniature circuit breaker. TESTEX Glow-Wire Tester is a fully automatic instrument contained in its own cabinet to maximize the safety of the operator, and large viewing window and black colored walls ensure convenient observation.

Specifications
- Glow Wire Ø 4mm ± 0.04mm Ni/Cr (80/20), standard
- Temperature Range 500 ~ 1 000 °C± 2 °C adjustable
- Sample pressure 1N ± 0.2 N
- Test speed 18 ± 3 mm/s
- Test mode automatic control, independent convulsions
- Chamber ≥0.5m
- Control single chip microcomputer + touch screen control

Standards IEC 60695-2-10, ASTM D6194, UL746A, GB/T 5169.10~13

Power 220 /110 V 50/60 Hz
Weight 90 Kg
Dimensions 1100 x 700 x 1300mm (L x W x H)

TF350 Smoke Density Tester

Smoke Density Tester is widely used for density determination of smoke from the burning or decomposition of plastics and building material, designed according to ASTM D2843 and GB/T 8627. Equipped with high accuracy PLC and colorful touch panel.

Specifications

- Max. smoke density (MSD) & smoke density rating (SDR) 0-100%
- Automatic measurement and calculation
- Standard filter ensures calibration tolerance is less than 3%
- Working pressure of Bunsen 276 kPa
- Bunsen flame applied to sample for 4min
- Chamber size 300 x 300 x 790mm
- Bunsen burner, nozzle diameter 0.13mm, 260mm in length, 45 degrees inclined to the smoke cabinet
- Photoelectric system consists of a 15W / 6V light bulb, ;
- Exhaust system is equipped with a strong exhaust fan to exhaust the burned air
- Receiver: silicon photocells, light transmittance of 0% means no light transmittance through,100% light without shelter completely through;
- Automatic timing, ignition, exhausting; Luminous flux test data can be linear calibrated in divided stages more accurate
- 95% propane gas, or equivalent purity gas,
- Gas pressure 0-0.3MPa (adjustable);

Standards ASTM D2843, GB/T 8627.

TF360 Needle Flame Tester

Needle Flame Tester, to determine the fire hazards of insulation and combustible materials used inside electrical and electronic products. When they are subject to components ignited, or when a combustible part ignited by the test flame has a limited duration of burning or a limited extent of burning, the test flame does not cause ignition,so it will not spread fire by flames or burning or glowing particles falling from the test specimen.

The Needle Flame Tester consists of a Φ0.9mm needle burner that tilts to 45 degree from the vertical and is fueled with butane gas. The fire hazard of the specimen is assessed by measuring the burning duration of the specimen, and any ignition of the wrapping tissue and white pine board below the specimen.

Specifications

- Needle burner Dia. 0.9mm (inner dia. 0.5mm), 35mm in length
- Burner angle 0,°20°, 45° adjustable
- Flame Height 12mm ± 1mm
- Temp. Range 0~1000°C
- Flame Temp. 100 °C ± 2 °C ~ 700 °C ± 3 °C
- Flame time 23.5 s ± 1 s
- Standard Copper Block 4mm±0.01mm, weight.0.58g±0.01g before drilling
- Test process automatic control, independent convulsions
- Chamber ≥0.5m3
- Control single chip microcomputer + touch screen control

Standards IEC60695-11-5, IEC60695-2-2, GB/T 5169.5, GB 4706.1
Power 220 /110 V 50/60 Hz
Weight 90 Kg
Dimensions 1100 x 700 x 1300mm (L x W x H)

Color Fastness

TU300C/D Color Light Box

Color Light Box / Color Matching Cabinet, used for color matching or assessment of all industries and where there is a need to maintain color consistency and quality. E.g. Automotive, Ceramics, Cosmetics, Foodstuffs, Footwear, Furniture, knitwear, Leather, Ophthalmic, Dyeing, Packaging, Printing, Inks and Textile.
It is very important to use standard light source to check color difference in night duty.
Besides D65 light source, TL84, CWF, UV, and F/A light sources are available in this color light box for metamerism effect.

Specifications
- Color matching cabinets provide several light sources, i.e. D65, TL84, CWF, UV, F/A
- Microcomputer to switch between the light sources quickly.
- Super timing function to record use time of each light source separately.
- All fittings are improved, ensuring quality.

Optional order Viewing Board 2kg

Model	Light Sources	Dimension(mm)	G. Weight
TU300C	D65, TL84, CWF, F, UV, U30	840 x 660 x 390	80 kg
TU300D	D65, TL84, CWF, F, A, UV, U30	840 x 660 x 390	80 kg

Standards ASTM D1729, BS 950 PART1, DIN 6173, M&S C1/C2, NEXT 11
Power 220 /110 V 50/60 Hz

TU311 Color Proof Station

Color Proof Station is designed especially for color comparison between objects and samples during the printing process. It adopts CPL asymmetrical color proof light tool and can illuminate two working surfaces, i.e. the vertical surface with the samples and the horizontal surface with objects. The drawer beneath the working table can house films, PS plate. It is equipped with rolling track, which enables it to slide under weight. The tables in some products can move up and down so as to satisfy the special viewing demands of certain customers.

Specifications
- Working Table 1350 x 905 mm, 5 – 30 degree adjustable
- Light source Imported 6500K/5000K fluorescent tubes,5 x 5000K or 6 x 6500K (selectable on request)
- Number of Drawer 5

Standards ISO 3664

Power 220 /110 V 50/60 Hz 180 W
Weight 270 Kg
Dimension 1450 x 1100 x 1350 mm (L x W x H)

TF410 Crockmter

Crockmeter, to determine the colour fastness of textiles to dry or wet rubbing.
The new Crockmeter equipped with an electronic counter, and handle is on the top to take it easily. A sandpaper is set under the test sample so that the sample is fixed during test, makes the rubbing color fastness test repeatable.

Specification
- Rubbing head Dia.16 mm
- Vertical pressure 9N+/-10%
- Rubbing stroke 104 mm

Standards ISO 105x12/D02, AATCC 8/165, BS 1006-D02, BS 4655, NEXT 10, M&S C8/C8A/C25/C52
Weight 15 Kg
Dimensions 660 x 160 x 215 mm (L x W x H)

Power 220 /110 V 50/60 Hz 4A
Weight 35 Kg
Dimensions 520 x 440 x 350 mm (L x W x H)

TF410B Side Crocking Tester

Side Crocking Tester, to determine and evaluate the amount of color transferred from the side and edge surface of a belt by rubbing.

Side Crocking Tester can be applied to the surface of a belt that are made from plastics, leather, and textiles made from all fibers in the form of yarn or fabric whether dyed, printed or otherwise colored. With a timing device which is a minimum resolution of 0.1 second.

Specification
- Clamp 104 mm
- Top load weight 3.0 lb.

Included Accessories
- Clamp
- Top load weight

Standards CPSD-SL-81006-MTHD-BELT

Weight 10 kg
Dimensions 115 x 100 x 150 mm (L x W x H)

TF411 Electronic Crockmeter

Electronic Crockmeter, to determine the colour fastness of textiles to dry or wet rubbing. A pinned acrylic sample holder ensures rapid sample mounting and repeatability of results. Crockmeter Fitted with a pre-determined electronic counter for strokes up to 999,999 times.

Specification
- Rubbing head Dia.16 mm
- Vertical pressure 9N +/- 10%
- Rubbing stroke 104 mm
- Counter 1 ~ 999,999 times, automatically stop

Included Accessories
- AATCC rubbing clothing 1 box
- Sand paper 2 (pcs)
- Rings 2 (Pcs)

Standards ISO 105x12/D02, AATCC 8/165, BS 1006-D02, BS 4655, NEXT 10, M&S C8/C8A/C25/C52

Power 220/110 V 50/60 Hz 2 A
Weight 30 kg
Dimensions 550 x 230 x 260mm (L x W x H)

TF412 Rotary Crockmeter (Motorized)

Rotary Crockmeter (Motorized), to determine the colour fastness of textiles to dry or wet rubbing particularly for printer fabrics. This Rotary crockmeter vertically applies 1134 grams of pressure on a 16 mm finger and rotate 1.125 turns clockwise then anti-clockwise.
It is motorized with adjustable speed, automatically stops after set cycles completed, LCD display.

Specification
- Rubbing head Dia.16mm
- Vertical pressure 1134g
- Rotation 1.125turns

Included Accessories
- AATCC rubbing clothing 1 box
- Sand paper 2 (pcs)
- Rings 2 (Pcs)

Standards AATCC 116, ISO 105 X16
Weight 25 Kg
Dimensions 350 x 250 x 450 mm (L x W x H)

TF413 Rubbing Fastness (Gakushin) Tester

Rubbing fastness (Gakushin) Tester for JIS standards, is for evaluating a material's resistance to rubbing motion. Unit is a six station; bench top machine includes clamps for sample attachment to moving platen and clams for weighted rubbing arm for attachment of rubbing material.

Specification

- Work station 6
- Rubbing head pressure 2N (Optional 1N, 2N and 5N).
- Travel length 100 mm.
- Travel speed 30 cpm
- Specimen 220 x 30mm
- Counter 1-999,999 times, automatically stops

Standards JIS 10801/0823/0849/1084 , TR369B, CNS 1499

Power 220/110 V 50/60 Hz 70W
Weight 75 Kg
Dimensions 560 x 550 x 540 mm (L x W x H)

TF414 IULTCS Rubbing Fastness Tester

IULTCS Rubbing Fastness Tester, designed to carry out a rub fastness test on the surface of leather to determine the amount of 'marring' of the leather surface or the finish and to assess the amount of colour transferring from the sample to the rubbing pad under dry or wet conditions.
The unique design of IULTCS Rubbing Fastness Tester allows reliable and stable test result. Impact appearance and construction design offers a good shape and convenient operation, also allows a long life time without repairing.

Available with a piece of 500g loading weight, thus allows a test with 500g or 1000g loading.
Equipped with an extension device so samples can be extended at a required rate.
Two models of single and double test position are offered.

Specifications

- Rubbing finger 500 +/- 25 g
- Loading weight 500 +/- 10 g
- Dimension of base of finger 15 x 15 mm
- Specimen 120 x 20mm
- Rubbing stroke 35 ~ 40 mm
- Speed of rubbing 40 +/- 2 cpm
- Counter 1-999,999 times, automatically stops

Optional order White or black Rubbing wool felts 500pcs / pack, or 1000pcs / pack
Standards ISO11640, ISO 17700, EN344, EN 13516, SATRA TM 173, DIN 4843, QB/T 2537

Power 220 /110 V 50/60 Hz 4A
Weight 35 Kg
Dimensions 520 x 440 x 350 mm (L x W x H)

TF415D Scorch Tester / Sublimation Tester

Scorch Tester (Sublimation Fastness tester), to determine fabrics ironing color fastness and sublimation color fastness, and dimensional stability under hot dry conditions.

Heating plate temperature and test time are adjustable, fitted with microprocessor temperature controller and the top plate with precisely controlled weight. The independent heating plate ensures controlling test temperature and thickness of sample individually.

Specification

- Large LCD display, convenient setting and operation.
- 3 pairs of heating plates, heating temperature of each upper and lower plate can be set individually.
- Each heating plate can be set heating ON or heating OFF.
- Timer 1 ~ 249s, automatically stops heating and alarms
- Temp. Range R.T. ~ 240
- Temp. Accuracy +/- 2 Deg. C
- Pressure 4kPa+/-1kPa
- Heating control Individual control for each top and bottom plate
- 3 stations with heating plate dimensions 120mm x 50mm

Standards
ISO 105, BS 1006, AATCC 92/114/117/133, DIN 54022/54060, JIS L0879/L0850/L0879, GB/T 5718/6152BS EN 14878, BS 5438 1989

Power 220 /110 V 50/60 Hz 4A
Weight 35 Kg
Dimensions 520 x 440 x 350 mm (L x W x H)

TF416A Perspiration Tester

Perspiration Tester is to determine colour fastness test to water, sea water, perspiration fastness in textiles and sublimation during storage. Perspiration tester consists of 1 stainless steel frame with 21 acrylic separator plates to hold 20 samples. Thus the both ISO/AATCC test methods can be done in one time. 20 plastic basins are equipped for pre-treatment of samples. A precise oven is required.

Included Accessories
AATCC weight with other parts in total 4.54kg(10lb)
AATCC weight with an extra ISO weight and other parts in total 5kg(11lb)
Acrylic Plates (Pack of 21)
20 plastic basins

Standards

Perspiration	AATCC 15 , EN ISO 105 E04 , DIN 54020 , JIS L0848 , BS 1006 E04
Water	AATCC 107, EN ISO 105 E01 , DIN 54006 , DIN54005 , JIS L0846 ,BS 1006 E01
Sea water	AATCC 106 , EN ISO 105 E02 , DIN 54007 , JIS L0847 , BS 1006 E02

Weight	18 Kg
Dimensions	210 x 100 x 160mm (L x W x H)

TF416B Perspiration Tester Kit

Perspiration Tester Kit, to determine colour fastness test to water, sea water, perspiration fastness in textiles and sublimation during storage. Perspiration Tester Kit consists of a precise Lab incubator, and a set of TF416A Perspiration Tester.

Included Accessories
- 1 set of AATCC and ISO Test kit
- 21 Plastic plates and 20 basins
- 1 Precise Lab Incubator (40 liters volume and temp. range up to 250 °C, Large LCD)

Standards

Perspiration	AATCC 15 , EN ISO 105 E04 , DIN 54020 , JIS L0848 , BS 1006 E04
Water	AATCC 107, EN ISO 105 E01 , DIN 54006 , DIN54005 , JIS L0846 ,BS 1006 E01
Sea water	AATCC 106 , EN ISO 105 E02 , DIN 54007 , JIS L0847 , BS 1006 E02

Power	220/110 V 50/60 Hz 70W
Weight	85 Kg
Dimensions	490 x 580 x 660 mm (L x W x H)

TF417 Gas Fume Chamber

Gas Fume Chamber, to determine the burnt gas fume color fastness of textiles when exposed to atmospheric oxides of nitrogen derived from the combustion of gases.
A specimen of the textile and the test control fabric are exposed simultaneously to oxides of nitrogen from burnt gas fumes until the control shows a change in color corresponding to that of the standard of fading. The change in color of the specimen is assessed with the standard gray scale for assessing change in color.

Includes testing chamber, burning and control chamber, rotating sample rack, standardised gas burner, test duration timer and exhaust port (to be connected to extractor system). Temperature can be set digitally on the touch panel, and controlled automatically by the closed-loop PLC system.

The unique design of gas fume chamber ensures safety of operate and the chamber, automatic ignition at the start or, if the burner distinguished during the test, maybe in the midnight; gas leakage detection device ensures the igniter will not be activated if gas detected, the fan on the top will start to ensure the safe of operation.

Specification
- Control system PLC
- Display touch panel
- Temperature system closed-loop controlled, programmable
- Ignition automatic (start to test or distinguished)
- Gas leakage protection automatic
- 18 samples can be test simultaneously

Standards	AATCC 23, ISO105-G02, BS EN ISO 105-G02
Power	220 /110 V 50/60 Hz
Weight	90 Kg
Dimensions	780 x 600 x 800 mm (L x W x H)

TF418 Washing Fastness Tester (Launderometer)

Washing Fastness Tester (Launderometer), to determine color fastness to washing or dry cleaning to ISO, BSI, AATCC and Marks & Spencers standards.

The washing fastness tester uses stainless steel rotor to holds washpots on each of four sides and rotates at a constant 40 rpm (+/-2 rpm). Washpots are preheated in appropriate test solution.

Containers are sealed with either a Neoprene rubber gasket or optional Teflon gasket.
To carry out the tests of AATCC and ISO standard fast, TESTEX redesigned the launderometer, with two baths to offer a maximum combined capacity of 12 and 6 vessels, and the baths have completely separate controls and drive systems, so they can be used as two independent machines for both ISO and AATCC standards. Opening door, test-finished alarm, etc.
Stainless-steel balls and pieces are included.
Single bath combined with both ISO and AATCC washpots in less quantity are offered on request.

Specifications

- Rotation speed 40 +/- 2rpm
- AATCC canister 1200ml, 6 pcs
- ISO canister 550ml, 12 pcs
- Temp. Max 98 oC, adjustable
- Running time adjustable
- Steel Balls 200 pcs

Standards	AATCC 61/86/132/151/190, ISO105-C01/C02/C03/C04/C06/C07 /C08/C09/D01/E03/E12, BS 1006, M&SC4A/C5/P3B/C10A/C11/C26/C3 7/C49A/P137, NEXT 2/3/5, IWSTM 7/115/177/193/199/240/241, FTMS 191-5610/5622
Power	380V 50Hz 10A
Weight	180 Kg
Dimensions	1100 x 700 x 1000 mm (L x W x H)

Sample Cutting

TF510 Electric Fabric Scissors

Electric Fabric Scissors. Various cutter blades are available and easily replaceable. Electronic Scissors can be used for cutting cloth, card boards, leather, paper boxes, etc.
Abandonment type tool bit, replacement fast convenient, may match fitting of the different demand.
Battery or A/C powered.

Power 220 / 110 V 50/60 Hz
Weight 2 Kg
Dimensions 280 x 220 x 75mm (L x W x H)

TF511A/B Rotary Cutters

Fabric Rotary Cutter cuts materials with smooth edge by an electric round knife, widely applied to many industry, including clothing, leather, rubber, blankets, carpets, furniture, sofas, and umbrella making industry, etc.
Silent, safe and reliable. Easy to operate, the cutter only weight 0.5kg, including removable grindstone, easy to grind the knife without tools, NI-H rechargeable battery.

Model
- TF511A Fabric Rotary Cutter
  High speed motor for cutting soft and thick fabric, paper, etc.
- TF511B Fabric Rotary Cutter
  Low speed motor, for cutting hard and thick material, such as carpet, leather products, etc.

Specifications
- Dimension of blade Dia. 42mm
- Cutting thickness 10mm
- Battery or A/C power

Power 220 / 110 V 50/60 Hz 30 W
Weight 1 Kg
Dimensions 280 x 220 x 50 mm (L x W x H)

TF512 Swatch Cutter

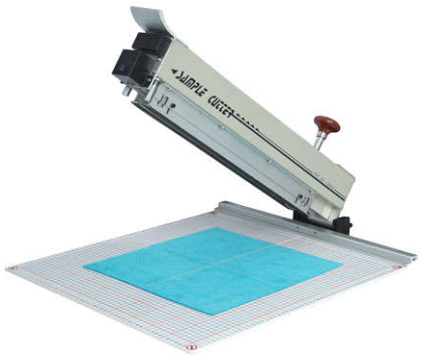
Swatch Cutter cuts fabric sample (pattern, swatch) of 450mm cutting length and 100 cutting depth with safe, quick and accurate operating.

Features

- The lightest swatch cutter in the world (6 kg only)
- Bearing drive circular blade.
- Installation in 3 minutes on any table top.
- Laser alignment cutting.
- Right angle rail for parallel swatch cutting.
- Scale cutting mat for speedy measurement

Specifications
- Cutting blade 1year life / Dia. 80mm circular blade(pitch 5mm)
- Cutting thickness 10mm
- Cutting length 450mm
- Scale cutting mat 500*500mm (double side usable)

Included Accessories
- Cutting blade 1Pcs / 1year life
- Scale cutting mat 1Pcs / 6 months life



Power 220 / 110 V 50/60 Hz
Weight Cutter 7 Kg / Mat 3Kg
Dimensions Cutter 930 x 330 x 170
Mat 600 x 600 x 40 mm (L x W x H)

TF513 GSM Cutter

GSM Cutter is a circular sample cutter cutting sample such as fabric or paper, film, in various dimensions, such as 100cm2 for GSM, cutting accurate fabric circular samples with smooth edges by drawing action even difficult materials such as fabric, thin films, tissue paper, and corrugated cardboard and synthetic leather can be cut by the sample cutter conveniently. The cutting pad is made of porous rubber, which allows the sample cutter to cut into the base with complete safety.

Weight	3 Kg
Dimensions	200 x 200 x 160mm (L x W x H)

TF515 Pneumatic Sample Press

Pneumatic Sample Press, a new type of desktop sample press, is to cut samples for testing or other use. Equipped with 125 mm cylinder, Cutting depth of 10mm and 125 x 125mmn tables. Under the pressure of 100 psi can produce 800kg/f pressure, equipped with a double bond security operation. Can be requested to provide special shape die. Laboratory standards compression air is required.

The cutting dies in most sizes and shapes can be offered on request with drawings.

Standards	ISO3801, ASTM D3776/2646, BS 3424/2471, BS EN 12127, M&S P65/65A
Air Source	0.5-0.7 Mpa
Weight	80 Kg
Dimensions	350 x 350 x 500mm (L x W x H)

TD110 Lab Wringer (Padder)

Lab Wringer (Padder), to evenly squeeze or extract excess liquid from fabric specimens for next procedure of test. This Lab padder / wriner is used for many kind of textile test to precisely ensure the rest liquid of specimens.

Specifications

- Working width 300mm
- Rollers Dia. 54mm, made of neoprene
- Working speed 25mm/s
- Dead weight loading up to 80Kg
- Equipped with liquor tank

Included Accessories

Loading Weights 0.5Lb x1Pc, 1Lb x2Pcs, 2Lb x4Pcs

Power 220 V 50/60 Hz 4 A
Weight 50 Kg
Dimensions 750 x 250 x 300 mm (L x W x H)

TD122 Lab Padder (Vertical & Horizontal)

Lab Padder, padding mangle is used for dyeing, finishing and impregnating.

The roller of Lab padder is made of quality NBR; good flexibility ensures long-life; whole machine is made of high quality stainless steel. The main components are all the best in the world. The lab padder is equipped with emergency button and a knee pedal to stop the machine operation. Air compressor can be supplied on request.

Specifications

- Working position Vertical
- Working width 400mm
- Rollers Dia. 130mm,with 70 ~ 80 shore hardness
- Working speed 0 ~ 10m/min
- Roller's loading 0.1 ~ 0.7Mpa
- Padding rate 30 ~ 90%, adjustable
- Equipped with 2 pressure valve, each side of pressure is adjustable
- All panels are made of stainless steel
- Equipped with Chemical trough and a shower for cleaning

Power / Air 220 V 50/60 Hz 0.4-0.7Mpa
Weight 165 Kg
Dimensions 840 x 740 x 1100 mm (L x W x H)

TD130 Infrared Lab Dyeing System

Infrared Lab Dyeing System is suitable for all fibers and substrates dyeing. The infrared dyeing system produces accurate laboratory sample dyeings with level and reproducible results and accommodates up to 24 positions with a low liquor ratio for synthetic and natural fibers. This infrared dyeing system moves the beakers in a circular rotation with advanced infrared heating technology eliminating glycol contamination and cumbersome beaker cleaning.

For the accurate dying, after the temp. reaches 80 degree, it is required to add assistant into the beaker in a long period, and most IR dyers is adding liquid by using injector, but it is too fast. While TD130 is different, by adding liquid into the auxiliary beaker on top of the cap, and the liquid is kept adding to the main beaker very slowly through the tiny hole of cap. This device is to simulate the actual dying process that the pump adding assistant slowly, and this Chemical Adding kits is offered on request.

Features

- Three ~ dimensional turning, clockwise and anti-clockwise running makes even dyeing results
- Beakers are made of quality SUS316 stainless steel, heating fast and level, specially pressure-tested beakers offer maximum safety for atmospheric and high-temperature dyeing.
- Infrared heating continuously (non-off-type) by quality infrared heaters which 360-degree ring-shape, direct heating on steel beakers, to let dyeing equably and saving 50% elctricity.
- Programmable computer system controlls process , can save up to 99 kind of process, touch screen displays temperature , time, process No. and temperature curve , imported high-precision PT 100 temperature probe monitoring the actual temperature of dyeing liquor directly , to let heating and cooling automaticlly .

Power 220 / 110 V 50 / 60 Hz 4 kW
Weight 190 Kg
Dimensions 600 x 750 x 830mm (L x W x H)

Specifications

- Temperature range 30 ~ 140 oC
- Beakers 24 pots / 300ml (or other No. of quantity and volume)
- Heating or cooling speed 0.5 ~ 3.5 oC / min
- Temp. Control accuracy 1 oC
- Rotation speed 0 ~ 30rpm (adjustable)
- Liquor Ratio 1: 5 ~ 1 : 10

Options

Chemical adding kits, specially designed chemadd lid (dyepot cap) and chemadd pot (for chemical powder or solution additions) to add chemical without opening dyepot ensures temperature stability during the dyeing

TD220 High Temp Lab Dyeing Machine

High Temp Lab Dyeing Machine is suitable in various galley proofs dyeing and the laundering firm test. The highest operating temperature reaches 140 oC. Equipped with programmable micro computer control system, repeatable working condition to simulate the actual operating conditions.

Specifications

- Temperature control Dyeing Singlechip
- Dyeing Beakers 250 ml
- Temperature Control precision +/-0.6 ℃
- Working temperature Room Temp. to 140 ℃
- Heating and cooling speed 0.1~5 ℃/min
- Cooling Method Water cooling
- Rotation speed 46 rpm

Power 380 V 50 Hz 7.5 Kw
Weight 150 Kg
Dimensions 950 x 710 x 1130 mm (L x W x H)

TD230 Oscillation Dyeing Machine

Osillation Dyeing Machine is used for dyeing and washing sample test at room temperature for textile, printing industry, for the dyeing factory and dyes, additives, chemical plant sample.

This machine is a professional equipment for sample dyeing and washing test at room temperature in weak alkaline environment or conventional conditions, for fabrics, fiber or yarn. Ultra quiet design greatly enhances levelness of specimen dyeing.

Features

- Totally made of high quality mirror stainless steel could use in any poor environment without any problem
- Specially design high speed, low noise and enough dyeing liquid moving
- Good micro-processor supply 9 patterns and 10 steps, same as factory dyeing
- High quality spring hold dyeing beakers exactly without inclination dyeing beakers
- High quality motor could adjust speed according to customer's requirement.
- Easy adding auxiliary during dyeing process

Power 220 V 50 H 4 Kw
Weight 60 Kg
Dimensions 1060 x 550 x 720 mm (L x W x H)

Specifications

- Number of Beakers 24
- Beaker Capacity 250ml
- Shaking distance 42mm
- Speed 0 ~ 140 cpm
- Max Temperature 99 oC

TD300 Lab Magnetic Printer (Lab Printing Table)

Lab Magnetic Printer (Lab Printing Table) is magnetic printing machine with printing area of 450 x 300 mm, which is for technology experiment in various natural and synthetic fabrics in lab.
A thin roller driven by a magnetic block rolling on the silk-screen, printing pressure is displayed digitally and adjustable.
Switzerland Habasit printing belt, Japan Panasonic Frequency conversion, Germany linear slide bearing, China Taiwan Chen-bang Gear-motor, PLC controlled.

Specifications

- Printing area 450 x 300 mm
- Screen frame size 720 x 480 mm
- Magnetic stick Dia. 8, 12, 16, 20, 25mm, 350mm in length. (Each machine is equipped with 1 Dia. 20mm magnetic stick)
- Drive mode Motor - gear box – toothed belt - magnetic block
- Operation mode Running towards the left / right then automatic stop; to and fro.
- Speed control Frequency conversion adjusts speed, digital display, 0 ~ 8 MPM
- Magnetic Control Adjustable magnetic force, 10 steps, digital display

Power 220 /110 V 50/60 Hz
Weight 100 Kg
Dimensions 900 x 640 x 380mm (L x W x H)

TD400 Lab Coater

Lab Coater is the optimum combination of dryer and laboratory coating table. Various kinds of material samples are coated in the same run by the coating device and heat-treated in the dryer.

The coating is applied either by a floating, roller or rubber blanket knife. Multiple coatings which do not require reloading are also possible.

Specifications

- Max. Coating area 300 x 400mm
- Coating thickness 0 ~ 5mm,
- Resolution ratio 0.01mm
- Electic coating, coating speed 0 ~ 4m/min
- Removable pin frame, the pin frame can be put into the oven / dryer (TD610) with the textile when coated

Power 220 V 50/60 Hz 40W
Weight 180 Kg
Dimensions 840 x 680 x 500 mm (L x W x H)

TD500 Lab Calender

Lab Calender is mainly used in laboratory for calendering finishing test of non-woven fabric, cotton fabric, wool fabric, chemical fiber fabric, hemp fabric, and mixture fabric. The Lab Calender can also be used to make the touch-feeling sample.
The Lab Calender uses advanced mechanical structure and precise, automated control systems to simulate the true operating conditions of mass production. The machine provides a reliable test result and true experiences of trial production for the research and mass production.

Specifications

- Calendering roller 2
- Running speed 5 ~ 10M/min
- Working width 300 mm
- Loading Mode Hydraulic
- Pressure 5T
- Diameter of Soft calendering roller 360 mm
- Diameter of Hard calendering roller 250 mm
- Temperature of Hard calendering roller Max 200 degree C
- Temperature of Soft calendering roller Max 80 degree C

Power 380 V 50 Hz 8.5 Kw
Weight 950 Kg
Dimensions 1750 x 750 x 1900 mm (L x W x H)

TD600 Lab Mini-Dryer

Lab Mini-dryer, table model, is an excellent laboratory dryer for all drying, setting, baking and thermosoling processes.

This dryer is used for the next procedure of TD400. Floor type dryer (looking is the same as TD610) is offered.

Specifications

- Good heat insulation obtained by high grade material, construction with well dimensioned insulation thickness.
- Specially designed pin frame to hold all types of sample fabric in length and/or width
- Sample size up to max. 36 x 42cm
- Automatic pin frame transport with pre-selectable dwell times.
- Heating temperature up to 250 oC
- Audible alarm for end of test
- Even temperature distribution by the air circulation fan
- Suitable for the discontinuous operation in conjunction with TD122 Lab Padder

Power 380V 50 / 60 Hz 6 kW
Weight 160 kg
Dimensions 1400 x 730 x 850 mm (L x W x H)

TD610 Lab High Temp. Steamer

Lab High Temperature Steamer, the same looking as the floor type dryer, but equipped with steam generator, thus this steamer can be widely used for drying, curing and steaming, for the use of a wide range of the dyestuff and chemical industry, finishing plants, research institutes and general textile industry.

Specifications

- Temperature range for:
  Electric heating for drying, curing 20 oC ~ 250 oC
  Steaming with saturated steam 102 +/-2 oC
  High Temperature Steaming at 105 ~ 190 oC
- working time is presetable for 1 ~ 999 s, automatically moving in & out, and alarms
- Special design of retractable pin frame, the tension of test fabric samples can be adjusted in both warp and weft direction, the maximum stretch rate are up to 30%
- Max sample size 360 x 420
- Suitable for the discontinuous operation in conjunction with TD122 Lab Padder

Power 380 V 50 Hz 7 kW
Weight 160 kg
Dimensions 900 x 120 x 1400 mm (L x W x H)

TD620 Laboratory Tenter

Laboratory Tenter, a flexible continuous pin chain type hot air dryer, is widely used for all where a certain sample length is required in a continuous process. This mini-tenter is designed to simulate the Features of production scale tenter.

- Batch working with pin frame (length and width are adjustable) 160 ~ 360 mm
- Continuous working with endless pin chain
- The electric heating power is 19kw, temperature 20 ~ 250oC
- Moving speed 0 ~ 6 m/min
- 3 sets of air circulating fan ensures high drying and thermosoling performance
- Equipped with cloth pressing wheel in the feeding side, and pin-up device to lead fabric to reserve box at the end

Power 380 V 50 Hz 19 kW
Weight 600 kg
Dimensions 2500 x 900 x 1500 mm (L x W x H)

TD630 Lab Pad Steam Range

Lab Pad Steam Range, a combination of padding mangle and steamer, is used to carry out all pad steam processes with saturated steam, offering the shortest time 4 seconds between padder and steaming chamber, to avoid the disturbances and perform very good stability & repeatability on sulphur & vat dyestuff.

Pad steam range consists of padding mangle with two padding rollers, and a steaming chamber with fabric holding capacity of 6m, temperature range 98 ~ 102 oC for a dwell time 20 ~ 120 seconds.
The steam generator is offered on request.

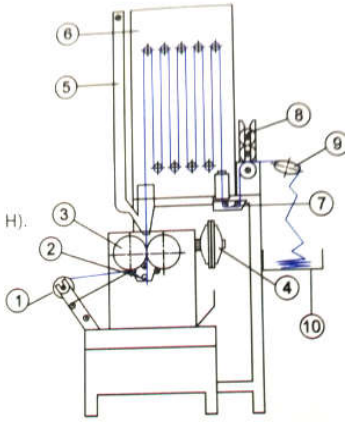
Specifications

Horizontal padder

- Roller size Dia. 125mm x 300mm
- Made of NBR rubber with 70o +/- 3 shore hardness
- Pressure 0.1 ~ 0.5mPa, 2 pressure gauges
- Chemical trough capacity 500ml

Steamer

- Temp. Max 103℃.
- Steam Max 0.5mPa
- Steaming Max 6 m, speed control ~ 120 s adjustable inside the steaming chamber
- All guide rollers inside the chamber is Teflon-coated
- Water sealing bath at the outlet for automatic cooling control
- Both steam inlet pipe and water inlet pipe size 1/2 inch are supplied by user



1. Test sample
2. Chemical trough
3. Padding mangle
4. cylinder
5. Steam outlet
6. Steam chamber
7. Water-sealing bath
8. Winding device
9. Plaiter
10. Fabric receiver

Power 380 V
Weight 350 kg
Dimensions 850 x 1400 x 1800 mm (L x W x H)

TD650 Lab Jig Dyeing Machine

Lab Jig Dyeing Machine is used to adjust the dye formula before batch production for dyeing factories, for the dyeing testing of cotton, linen, fiber gum and artificial fiber, and can realize the bleaching and dyeing of low bath ratio, and simulate the production process of large capacity dyeing machine.

This jig dyeing machine simulates the actual production process of velocity, temperature, pre tension, the ambient pressure parameters, etc. Jig dyeing machines is small size. The less the amount of dye, more flexible the formula change. Short test process in a short period of time is to make up an exact dye formula.

Specifications

- Roller Diameter Φ57 ~ Φ200 mm
- Roller Width ≤ 450mm
- Speed 0 ~ 10 m/min
- Speed Accuracy ±0. 01 m/min
- Temp. Range Room Temp. ~ 98 ℃
- Accuracy of the Temp. ±2℃
- Liquid volume: 1.8L

Power 220 V 50 Hz 3kW
Weight 160 kg
Dimensions 870 x 680 x 670 mm (L x W x H)

TD640 Laboratory Thermosol Range

Laboratory Thermosl Range is used for working out dye formulas and for research work. The working process is:
Continuous one-cycle thermosoling process padding – Infrared Pre-heater – Intermediate Dryer – Thermosoling.

The fabric samples padded by the horizontal pneumatic type padder are held on both ends by special clip bars. This complete sample holder is mounted on the chains which are running endlessly through the machine.

The fabric sample is firstly led through the infrared pre-heater, then the intermediate dryer and finally the thermosoling zone. After testing, the sample is taken off automatically from the carrying chains and dropped down into the fabric receiver.

Specifications

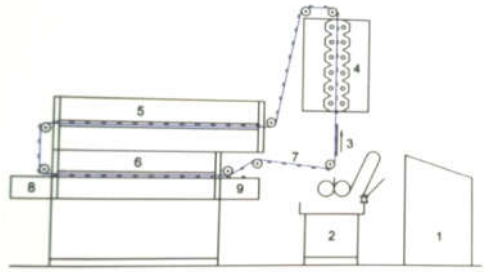
Horizontal padder
- Roller size Dia. 125mm x 300mm
- Made of NBR rubber with 70o +/- 3 shore hardness
- Pressure 0.1 ~ 0.5mPa, 2 pressure gauges
- Chemical trough capacity 500ml
- Air reducing valve, Air pressure gauge, Air filter, shower device

Thermosoling chamber
- Thermosoling distance 1500mm
- Auto Temp. control Max 250℃ with accuracy within +/- 1%
- Power 3 phase, 1 kW.
- One circulating fan with various speeds 1HP / 3 phase

Infrared heating system
- 12 reflect-type IR heaters
- Electrical capacity 3 phase, 4.8 kW
- Heating distance 900mm
- Reflection distance 70 ~ 120 mm can be adjusted

Dryer
- Drying distance 1800mm
- Temp. Controlling Automatic temp. control between 100 ~ 180℃ (Adjustable)
- Power 3 phase 10 kW heating
- One circulating fan with various speeds 1HP / 3 phase

Steamer
- Temp. Max 103℃.
- Steam Max 0.5mPa
- Steaming Max 6 m, speed control 20 ~ 120 s adjustable inside the steaming chamber
- All guide rollers inside the chamber is Teflon-coated
- Water sealing bath at the outlet for automatic cooling control
- Both steam inlet pipe and water inlet pipe size 1/2 inch are supplied by user



1. Switch cabinet 2. Padding mangle
3. Test sample 4. IR preheater
5. Intermidiate dryer 6. Thermosoling chamber
7. Clip chain 8. Fabric receiver after drying
9. Fabric receiver after thermosoling

Power 3 phase 380 V 50 Hz 28 kW
Weight 1000 kg
Dimensions 2500 x 1250 x 3030 mm (L x W x H)

Geotextiles

TG010 Geotextile Water Permeability Tester

Geotextile Water Permeability Tester, to determine the constant-head water flow capacity (water permeability) within the plane of a geotextile or geotextile-related product, is measured under varying normal compressive stresses, typical hydraulic gradients and defined contact surface.

Feature
- The whole machine is made of quality stainless steel and aluminum ensures no any rust and corrosion.
- Equipped with 4 600ml/min flow-meters for lower water permeability products, and a 5L/min flow meter is equipped for high water permeability products.
- Equipped-in water tank ensures water head pressure will not overload.

Specifications
- Max pressure 300 mmH_2O
- Resolution 1 mm
- Clamping area Dia. 50mm
- Thickness range of specimen 0.1 ~ 10 mm
- Water-flow range 0 ~ 5 L/min

Standards ISO11058, GB/T15789, GB/T17633, FZ/T10003, JTG E50 T1141, SL/T235，ISO 8124-1/ 8124-4

Power 380 V 50 Hz 1000 W
Weight 175 Kg
Dimensions 1200 x 540 x 1850 mm (L x W x H)

TG015 Geotextile Cone Drop Tester

Geotextile Cone Drop Tester, to determine the resistance of cone drop from certain height.

Specifications
- Internal diameter of Clamping 150+/-0.5mm
- Drop Height 500+/-2mm
- The angle of Brass cone 45 degree
- The weight of Brass cone 1000+/-5g

Standards JTG E50, ISO/DIS 13433, GB/T 17630
Weight 55 Kg
Dimensions 435 x 575 x 1600mm (L x W x H)

TG020 Geotextile Opening Size Tester (Dry Sieving)

Geotextile Opening Size Tester (Dry Sieving), to determine the apparent opening size (AOS) of a geotextile by sieving glass beads passing through a geotextile sample.
A geotextile specimen is placed in a sieve frame, and sized glass beads are placed on the geotextile surface. The geotextile and frame are shaken laterally so that the jarring motion will induce the beads to pass through the test specimen. The procedure is repeated on the same specimen with various size glass beads until its apparent opening size has been determined.

Feature
- Panasonic (Japan) servo motor and driving system
- Heavy-duty base ensures stable and quiet test
- Schneider (Germany) electric components and parts
- Frequency adjustor offers a wide range of test speed
- Includes 3 sets of stainless sieving, 10 bags of standard bead.
- 3 specimens can be tested simultaneously

Specifications
- Sieve diameter 200 mm
- Amplitude 10+-/-2 mm
- Lateral vibration frequency 220 times/min
- Vertical vibration frequency 150 times/min
- Radius of gyration 12+/-1mm
- Preset time 0 ~ 60min

Standards ASTM4751, GB/T 14799, JTG E50 T1144, SL/T 23, ISO 8124-1/ 8124-4

Power 380 V 50 Hz 1000 W
Weight 210 Kg
Dimensions 600 x 560 x 1030mm (L x W x H)

TG030 Geotextile Opening Size Tester (Wet Sieving)

Geotextile Opening Size Tester (Wet Sieving), to determine the characteristic size of the openings of a single layer of a geotextile or geotextile-related product by using the wet-sieving principle.

Specifications

- Internal clamp diameter 130 mm
- Vibration frequency 50 Hz
- Nozzle pressure 300 kPa/
- Water flow 0.5 L/min
- Timing range 0 ~ 99min

Standards ISO 12956, GB/T 17634, SL/T 235, ISO 8124-1/ 8124-4
Power 220 V 50 Hz 300 W
Weight 100 Kg
Dimensions 680 x 450 x 750 mm (L x W x H)

TG040 Geotextile Thickness Tester (Wet Sieving)

Geotextile Thickness Tester, to determine the thickness of geotextile synthetic materials and related products under pressure and in specified time.

Specifications

- Area of presser foot 25 sq. cm
- Weight of presser foot 5N (Self-weight 510.2g, 4 pieces)
- Sample pressure 2±0.01kpa / 20±0.1kPa / 200±0.1kPa
- Dial indicdator 0 ~ 24±0.01mm
- Micrometer gauge 0 ~ 1±0.001mm
- Stopwatch resolution 0.1s

Standards ISO 9863, JTG E50, GB/T 13761
Weight 40 Kg
Dimensions 730 x 320 x 350mm (L x W x H)

TG050 Geotextile Water Flow Capacity Tester

Geotextile Water Flow Capacity Tester, to determine the constant-head water flow capacity within the plane of a geotextile or geotextile-related product.
The flow of water within the plane of a geotextile or geotextile-related product is measured under varying normal compressive stresses, with typical hydraulic gradients and with defined contact surfaces.

Features

- Diaphragm pressurizing
  High pressure, Keeping pressure long time, easy to maintain, can greatly reduce the testing cost.
- Pressure Pump and Testing Cylinder
  Easy to operate, the result more accurate.
- Full stainless steel

Specifications

- Dimensions of Specimens 300 x 300mm
- Hydraulic Gradient 10 grades, 0.1 ~ 1.0
- Normal compressive stress 20kPa, 100kPa, 200kPa (500kPa offered on request)

Optional order for ASTM4716
Standards ISO 12958, GB/T 17633
Weight 295 Kg
Dimensions 900 x 500 x 1300mm (L x W x H)

TG060 Geotextile Abrasion Tester

Geotextile Abrasion Tester, to determine the abrasion resistance of woven geotextiles, nonwoven geotextile and its related products.

The specimen is fixed on the platform, and a specified abrasion material rubs the specimen under the specified pressure and friction action, determining the tensile strength after abrasion test. The percentage of loss of the tensile strength is reported as the resistance performance of abrasion.

Specifications

- Size of lower plate 50 x 200 mm
- Size of upper plate 50 x 200 mm
- Stroke Length 25 +/- 1 mm
- Speed 90 cycles / min
- Load pressure 6 +/- 0.01 kg
- Eccentricity 12.5 mm
- Sample cut template (50 x 300) +/- 1 mm

Standards GB/T 17636, ISO 13427

Power 220 V 50 Hz 120 W
Weight 60 Kg
Dimensions 935 x 275 x 350 mm (L x W x H)

TG070 Geotextile Hydrostatic Pressure Tester

Geotextile Hydrostatic Pressure Tester, to determine the property of penetration resistance of geotextiles by static hydraulic pressure test.

Sample is clamped on the test head. The water under the sample is compressed to generate the hydrostatic pressure until the water drop appears on the sample, and the test is stopped.

Specifications

- Sample holder Dia. 200 ± 5 mm
- Pressure range & accuracy 0 ~ 2.5 mPa, +/- 2%
- Precision level class 0.4
- Diameter of hole plate Dia. 3 ± 0.05 mm
- Distance between holes 6 mm

Standards
GB/T19979.1, GB/T19979.2, GB/T17642, JTG E50 T1142

Power 220 V 50 Hz 100 W
Weight 85 Kg
Dimensions 550 x 750 x 1200 mm (L x W x H)

TN100 Wetback Tester

Wetback Tester is used for automatic measurement of the rewet properties of nonwoven coverstocks according to EDANA/INDA standards WSP 70.3, equivalent to ERT 150.5 (02) and ISO 9073-8 etc.

Standards
EDANA WSP 70.3, WSP 70.7, ERT 150.5, ERT153.0, ISO 9073-14, GB/T24218.14

TN110 Liquid Through Time Tester

Liquid Through Time Tester, to determine the liquid strike-through time of nonwoven coverstocks being penetrated of low conductivity liquids.

- The capacity of burette, more than 100ml
- Burette moving distance 0.1---150mm
- Burettes moving speed 50--200mm/min
- penetrating disc with precision positioning device
- The specimen holder can directly lift the penetration disc and is equipped with a positioning and fixing device
- Transmission plate is made of special white wire13. The instrument equipped with automatic liquid release device,
- Liquid flow rate controlled in 6 seconds through the flow 80ml, the error is less than 2ml

Standards
EDANA WSP 80.10, WSP 70.8, ERT154.0, ERT151.3,
ISO 9073-8, ISO 9073-13,
GB/T24218.8, GB/T24218.13

TN140 Synthetic Blood Penetration Tester

Synthetic Blood Penetration Tester is used for the determination of resistance of penetration by the synthetic blood under the different levels of test pressure to medical protective clothing.

Features
Provides 0.5 ~ 30 +/- 0.1 kPa air pressure to the specimen
Air pressure can be set freely, set range 0.5 ~ 30 kPa
Color touch-screen display, user-friendly operation.
Equipped with the automatic specimen clamping
Test head is made of high-quality 316 stainless steel, a high strength cover
Square metal block network: more than 50% open space; less than 5mm bending under 30kPa.

Standards
GB/T 19082

TN120 Nonwovens Absorption Tester

Nonwovens Absorption Tester, to determine the liquid absorption of nonwovens, including water absorption time testing, water absorption test, water absorption rate test.

PLC and touch panel controlled ensures convenient operation and precise controlling. Micro-printer is equipped to print test results.

Range is 200g (0.01g); lifting speed is 40mm/s

Standards
ISO 9073-6, Edana 10.3, GB/T 24218.6, IST 10.1

TN130 Nonwovens Run-off Tester

Nonwovens Run-off Tester is used for determination of liquid loss for nonwovens.
A piece of standard absorption media is placed under and the specimen, and the combined sample are placed in a tilted pad, measuring when a specific amount of artificial urine to flow downward to the combined sample. The liquid penetrates nonwovens and be absorbed by absorption medium. Weigh the standard absorption media before and after test; the performance of fluid loss of nonwoven samples is evaluated according to the change of the weight of the absorption media

Standards Edana152.0, ISO9073-11

TN150 Acid / Alkali Penetration Tester

Acid / Alkali Penetration Tester, to determine the penetration resistance to acid and alkali for protective clothing by using conductive method. The time of penetration is reported.

Using conductance method and automatic timing device test fabric pH class penetration time of chemical protective clothing. The specimen is placed between the upper and lower plates; conductive wire are connected with plate and also contacted with the specimen surface, when the liquid penetration occurs the circuit conduction, timing stopped.

Standards
GB/T 24540

Carpet

TF610 Carpet Dynamic Loading Tester

Carpet Dynamic Loading Tester, by simulating walking to determine the effects to two of the main actions of walking: compression, and the shearing effect at the edge of the shoe.

Standards

ISO 2904, QB/T 1091

TF620 Carpet Thickness Tester

Digital Thickness Tester, to determine the thickness of carpets, underlays, nonwovens and geotextiles. This thickness tester is easily adapted to meet different test standards.
Besides the thickness test for carpet, nonwovens, foam products, geo-textiles, compression test and recovery from compression for carpets and underlays are also suitable.

Standards

ISO3801, ISO 1765: 1986，ISO 1766: 1999 (BS)BS 4051: 1987 (1996), BS 4098: 1975 (1996), BS 5808: 1991 (1996)Wools of New Zealand test method 142

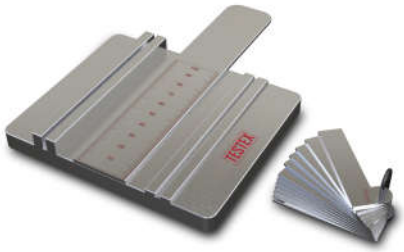
TF630 Pile Height Tester

Carpet Pile / Tuft Height Tester, set of steel measuring gauges for manually checking carpet pile height.

The flat stainless steel gauges are inserted into the pile, by using successive gauges. The gauge nearest the pile length can be determined. The measuring range is 3 to 25mm in 1mm steps.

Standards

BS 4223, ISO 2549:1972, Wools of New Zealand test method 20



TF640 Pile Thickness Tester

Carpet Pile / Tuft Thickness Tester, to measure the thickness of carpet pile.

The gauge is positioned on the carpet and six loaded needles penetrate the pile until they make contact with the denser backing. The pile surface is located by a flat probe. The pile thickness can then be read directly from the digital gauge.

Standards

ISO 1083

TF650 Hexapod Tumbler Carpet Tester

Hexapod Tumbler Carpet Tester, to evaluate the appearance retention of carpets.
Can test with underlay underneath the carpet.

Standards

ISO 10361, IWSTM 247 & 251, ISO 9405, BS EN 1471, GB/T 26811