YARN TESTING (SERIES Y)

YARN TESTING EQUIPMENT

Y001A Single-Yarn Strength Tester

To determine the breaking load and extension for single yarns, to make record and statistics and print out test results.

Standards

GB/T14344, GB/T3916, ISO2062, ASTM D2256

Y001B Automatic Single Yarn Strength Tester

Used for testing breaking strength and elongation of single yarn and pure or mixed yarn of various cotton, wool, linen, silk, chemical fiber and core-spun yarn.

Standards

GB/T 14344, GB/T 3916, ISO 2062, ASTM D2256

Y002 Lea Strength Tester

To determine the resistance to tensile rupture strength and rupture elongation property for cotton, fur, fiber, silk, wool fiber fabric, non-woven, paper, braid, etc.

Standards

GB/T8698, ISO6939

Y003 Chemical Fiber Filament Tensile Strength Tester

To determine the fracture/break strength and breaking elongation for synthetic fiber, spandex, nylon, polyester filament, test of composite filament and textured yarn. Support to make record and statistics and print out test results.

Standards

ISO2062, JIS L 1013, GB/T14344, GB/T3916, ASTM D2256

Y004A Manual Yarn Twist Tester

Used for testing the twist of roving.

Standards

GB/T 2543.1.

Y004C Electronic Yarn Twist Tester

To determine twist, twist uneven rate, twist contraction for yarn and thread of cotton, fur, silk, chemical fiber.

Standards

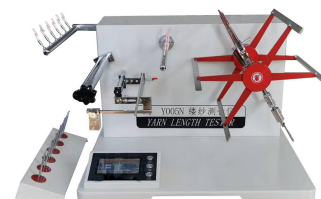GB/T2543.1; GB/T2543.2; ISO2061, 17202; BS 2085; ASTM D1422,1423

Y005N Wrap Reel Electronic

Used to accurate measure yarn length, which is provided to the yarn linear density or count and skein strength test.

Model   Y005N-E | Y005N-E

Reel circumference 54± 1/16in (English system) | 1000± 1mm(Metric system)

Standards

ASTM D1907, ISO2060, GB/T4743, GB/T6838, GB/T14343

Y006A Sample Yarn Winder

Sample yarn winder is used to reel various kinds of yarn(Cotton, chemical fiber and various blended yarn) onto a black board. Then according to cloud observation to quick assess yarn quality.

Standards

GB/T996, 398, 5324; FZ/T32004, 32005

Y006B Sample Yarn Winder

Sample yarn winder is used to reel various kinds of yarn(Cotton, chemical fiber and various blended yarn) onto a black board. Then according to cloud observation to quick assess yarn quality.

Standards

GB/T 9996; GB 403; ASTM D 2255

Y007A Sliver and Roving Reel

Used for making cotton,wool and spun silk yarn into sliver and roving with a certain length in order to measure its evenness.
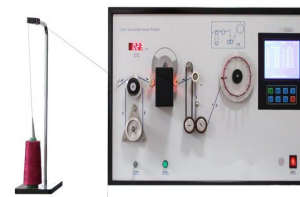
Standards
ISO 2060; GB/T 4743

Y008 Yarn Hairiness Tester

Used for measuring and analyzing yarn hairiness indexes, automatic test and statistical analysis on the length, quantity and distribution of feathers.

Y008N Yarn Hairiness Tester

Yarn hairiness tester is used for measuring and analyzing yarn hairiness index, automatic testing and statistical analysis of length, quantity and distribution of hairiness.
Applicable yarns Cotton, wool, hemp, silk, chemical fiber and short fiber blended yarns
Measure range   Ne = 4 to 60
Tex = 4 to 160
Hair length   The length distribution of eight hair from 1 to 8mm, and the harmful hair index containing 3mm and above.
Hair length test accuracy 0.03mm
Feather resolution   0.3mm
Test speed   400m/min
The length of yarn test segment   Can be set from 1 to 400m
Consecutive test times   1 to 100 times
Data statistics   Average hairiness distribution, CV%, range, hairiness index over 3mm, histogram, etc.

Y010A Full Automatic Yarn and Sliver Evenness Tester

To determine and analyze sliver, roving and spun yarn's evenness and the evenness of structure . Applicable to silver, roving and spun yarn made of cotton, wool, synthetic fiber, linen and blended yarn, etc.
Drawing mechanism adopts dual-motor drive mode to achieve non-silp of sliver. Large size of roller to lower rotate speed with unique aseismic design and more stable transmission. Roller is available for auto open-close, auto scaling, and can be used in revising direction, which reduces the abrasion for roller from yarn, and extend service life of roller.
Wave spectrogram can display wavelength value, unevenness curve can be scaled freely. With larger data retrieval function.
Capacitance detection trough   4
Test range   4tex~12Ktex

Y010E Yarn Sliver and Roving Evenness Tester(Without Hairiness Function)

Specially for test the evenness faults for spun yarn, roving, sliver.

Test Slot 4

Test range   4tex~12k tex

Y010F Yarn Evenness Tester

Specially designed to determine spun yarn's evenness only.

Test Slot 3

Test range   4tex~160tex

Y010T Yarn and Sliver Evenness and Hairiness Tester(Without Hairiness Function)

To determine and analyze sliver, roving evenness and the evenness of structure . Applicable to silver, roving made of cotton, wool, synthetic fiber, linen and blended yarn, etc.
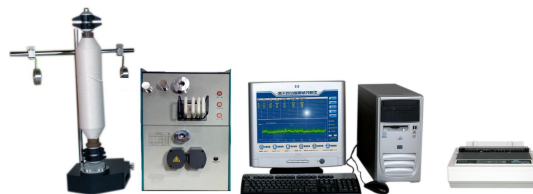
Drawing mechanism adopts dual-motor drive mode to achieve non-silp of sliver. Large size of roller to lower rotate speed with unique aseismic design and more stable transmission. Roller is available for auto open-close, auto scaling, and can be used in revising direction, which reduces the abrasion for roller from yarn, and extend service life of roller.

Wave spectrogram can display wavelength value, unevenness curve can be scaled freely. With larger data retrieval function.

Test Slot 3

Test range   160tex-80k tex

Y011 Multiputpose Yarn Humidity Meter

Used for testing the regain percentage of various of various textile material, such as cheese,

shein, sliver and fabric.

Y012C Yarn Color Chart Winder

Used for winding the yarn, various synthesizes material and other material of suit to wind etc. ,on to a paper tape. This product is newest design for winding various sample cards.

It is especially suitable for domain listed below:

Sample cards, whiteness test,ultraviolet ray resist test,

sample standardization, colour compare,colour chart etc..

Y013 Electronic Yarn Count System

Used for quickly testing the linear density of various yarn.

Unit conversion: Oz / Tex / Nm / Ne / D/ g / ㎡ / yd2

Y014 Digital Tensionmeter

The product is especially used for testing dynamic tensile force of flexibility line material . It has digital display devices and adjustable devices for clamping yarn . It can be taken with you .
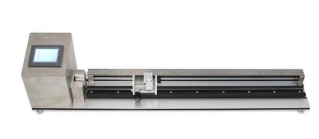
M016 Digital Yarn Crimp Tester

• To measure the crimp degree of yarn in fabric.
• Take-up of yarn in fabric.
• Calculation of the count of yarns removed from fabrics
• Estimation of yarn usage in the production of fabrics

Standards

ASTM D3883, GB/T 29256.3, ISO 7211-5, ISO 7211-3

Y017 Automatic Yarn Crimp Tester

• To measure the crimp degree of yarn in fabric.
• Take-up of yarn in fabric.
• Calculation of the count of yarns removed from fabrics
• Estimation of yarn usage in the production of fabrics

Standards

ASTM D3883, GB/T 29256.3, ISO 7211-5, ISO 7211-3

Y019A/B Yarn Friction Tester

Yarn friction tester is used to measure the dynamic friction coefficient of friction characteristics, suitable for the dynamic friction coefficient determination of synthetic filament yarn and other materials, or roller and other textile equipment used for the determination of friction coefficient, are essential to evaluate filament yarn and textile equipment friction coefficient test apparatus

Model	Y019A		Y019B
Yarn testing speed	100m / min		200m/min
Standards	ASTM D 3108, T/CNTAC 4-2017		JISL 1095, ASTM D 3412

Y020A Eight Basket Ventilated Drying Oven

Ventilated Drying Oven is used for moisture content and moisture regain test for various kinds of textile materials and its product.

Standards

ISO 7211-5 Part 4.3; GB/T9995-1997; ISO 2060,6741; ASTM D2654

Y020B Eight Basket Ventilated Drying Oven

Ventilated Drying Oven is used for moisture content and moisture regain test for various kinds of textile materials and its product. Comply with test standard ISO 7211-5.

Standard

ISO 7211-5; GB/T9995-1997; ISO 2060,6741; ASTM D2654

Y021 Yarn Fault Analyzer

To detect and analysis yarn fault.

FIBER TESTING (SERIES F)

F001 Intelligent Fiber Measurement Instrument

By high-resolution industrial camera and computer connected to the optical microscope, relying on professional analysis software to complete the fiber diameter and sectional area of the test, etc., and can measure mixed fiber content of each fiber

Standards

GB/T10685, 116988; FZ/T30003; SN/T0756; AATCC20A

F003C Electronic single-fibre strength machine

It is used to measure the breaking strength, breaking elongation, constant elongation load, constant load elongation, creep and other performance indexes of various materials such as single fiber, metal wire, hair and carbon fiber.

Standards

GB/T14337, 9997, 13835.5, ISO 5079, 11566, ASTM D 3822, BS 4029

F004 Fibre Rapid Oil Extraction Apparatus

To quickly extract oil from various fibers so as to measure the oil content.

Standards

GB6504; GB6977; ASTM-D-2257

F005 Fibre Bundle Strength Tester

Used to measure strength and elongation of bundle fiber of cotton,wool and chemical fiber etc.Properties should be meet the requirement in GB/T13783
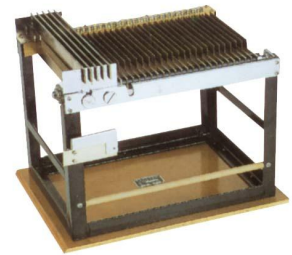
Standards

GB/T13783

F006 Wool Fiber Comb Stapling Sorter

Test the wool fiber length of a single wool.
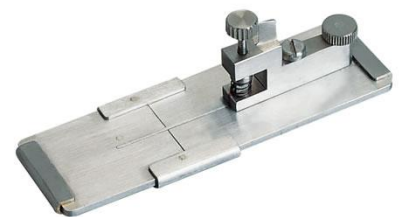
Standards

GB6501-65, ISO920-1976, FJ533-85

F007A Precision Fiber Microtome

To produce fiber cross sections microscopic examination, measurement and identification.
Standards

GB 10685, GB/T 116988, AATCC 20A, SN/T 0756, FZ/T 3003

F007B Precision Fiber Microtome

Used for various fibers to determine the length of the thread when determining the density of the fiber.

Cutting length: 10mm, 20mm, 25mm, 30mm, 40mm

F008 Fiber Crimp Elasticity Tester

Used for measuring the crimp, crimp elasticity, crimp recovery rate and its statistic for fiber with 1-22 dtex. With display and printing function.

F009 Fiber Length Tester / Fibrograph

Measures length and length uniformity by digital method

Capability for cotton, long staple natural, wool, cashmere, and staple synthetics

0-80mm capability

Results by computer-short fiber, mean length, etc

F010 Fiber Length Tester

Used to analyze the length of cotton fiber or chemical staple fiber, consisting of two parts: fiber

extender and analyzer.

Standard

GB/T6908.1.