Fabric Testing











2025

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YG026A Series Fabric Stretch Tester

Application

For testing the stretch, growth and recovery performance of elastic fabric by static test at a specified tension or specified extension.

Standards

ASTM D3107 ASTM D2594

Key Specification

Model No.	YG026A-I	YG026A-II	YG026A-III
Tension available	3lb, 4lb	5lb, 10lb	3lb, 4lb, 5lb, 10lb
Scale length		1000mm	



YG026T Electronic Strength Tester

Application

To determine the tensile strength and elongation of fabrics.

Standards

ISO 9073-3	ISO 13934/5-1/2	ASTM D5034
ASTM D5035	ASTM D2261	ISO 13937-2/3/4
ISO 13936-1/2	ASTM D434	ASTM D1683

Key Specification

Capacity	Max. 5,000N
Max. stroke	900mm
Tensile speed	2~1,200mm/min
Return speed	2~1,000mm/min

YG026PT Electronic Strength Tester



Application

To determine the mechanical property of light woven fabric, light knitted fabric, non-woven fabric, including tensile, tearing, seam slippage, elastic recovery, etc.

Standards

ISO 9073-3	ISO 13934/5-1/2	ASTM D2724
ASTM D5034	SATRA TM411	EN 14704-1
ASTM D2261	ISO 13937-2/3/4	ASTM D4964
ISO 13936-1/2	ASTM D434	ASTM D1683

Key Specification

Capacity	50kg/100kg
Tensile speed	1~1,000mm/min
Max. stroke	400mm or 600mm

YG026PC Electronic Fabric Strength Tester



Application

To determine the mechanical property of light woven fabric, light knitted fabric, non-woven fabric, including tensile, tearing, seam slippage, elastic recovery, etc

Standards

ISO 9073-3	ISO 13934/5-1/2	ASTM D2724
ASTM D5034	SATRA TM411	EN 14704-1
ASTM D2261	ISO 13937-2/3/4	ASTM D4964
ISO 13936-1/2	ASTM D434	ASTM D1683

Key Specification

Capacity	20kg, 50kg, 200kg, 500kg, 1,000kg
Speed	1-1,000mm/min
Max. stroke	730mm



YG033A/B-II

YG033A/B-II Manual Elmendorf Tearing Tester

Application

To determine the tearing force of various woven or non-woven fabrics by falling pendulum method.

Standards

BS EN ISO 13937.1	GB/T 3917.1	TAPPI T414
BS EN ISO 21974	ASTM D5734	FZ/T 75001
EN ISO 4674-2	ASTM D1424	FZ/T60006
DIN 53128	JIS L1096	GB/T 3917.1

Key Specification

Model No.	YG033A-II	YG033B-II
Capacity	16N/32N/64N	32N/64N/96N/128N
Cut Length	20±0.2mm	
Jaw space	2.8mm±0.3mm	
Clamp	Manual	



YG033C(Plus)

YG033C Series Digital Elmendorf Tearing Tester

Application

To determine the tearing strength of various woven or non-woven fabrics by falling pendulum method.

Standards

BS EN ISO 13937.1	GB/T 3917.1	TAPPI T414
BS EN ISO 21974	ASTM D5734	FZ/T 75001
EN ISO 4674-2	ASTM D1424	FZ/T60006
DIN 53128	JIS L1096	GB/T 3917.1

Key Specification

Model No.	YG033C	YG033C(Plus)
Display and control	Screen display, key control	Touch screen
Capacity	16/32N/64N/128N	
Cut Length	20±0.2mm	
Jaw space	2.8mm±0.3mm	
Clamp	Pneumatic	

YG032M Digital Bursting Strength Tester



Application

To determine the bursting strength and distension at burst of a variety of materials.

Standards

ISO 13938-1 | ASTM D3786 | BS 3424-6

Key Specification

Pressure Method	Hydraulic
Measuring range	0~2.00MPa / 0~6.00MPa
Accuracy	±0.2%FS
Flow rate	(100~500)ml/min

YG032P Digital Bursting Strength Tester



Application

To determine the bursting strength and distension at burst of a variety of materials.

Standards

ISO 13938-2 | ASTM D3786 | GB/T 7742.2

Key Specification

Pressure Method	Pneumatic
Measuring range	0.2~900kPa
Accuracy	±0.2%FS
Flow rate	(100~500)ml/min



YG401 Martindale Abrasion and Pilling Tester

Application

To determine the abrasion resistance of wool, wool blends woven fabrics, knitted fabrics and nonwovens under certain pressures. Also used for pilling property test of most fabrics (especially woolen woven fabrics) under low pressure.

Standards

ASTM D4966	ASTM D4970	ISO 12945-2	ISO 12947-1	FZ/T 20020	BS 3424-24
ISO 5470-2	DIN 53863	JIS L1096	IWS TM 196	EN 388	SATRA TM31

Key Specification

Model No.	YG401B	YG401D	YG401E	YG401F
Working Station No.	4	6	8	9
Pressure weight (Abrasion)	9kPa, 12kPa			
Pressure weight (Pilling)	260g			
Effective diameter of abrading head	Φ28.65mm for abrasion test Φ90mm for pilling test			
Abrading device speed	50±2r/min			
Pressing weight	(2,385±10)g			



YG401 (Plus) Series Martindale Abrasion and Pilling Tester

Application

To determine the abrasion resistance of wool, wool blends woven fabrics, knitted fabrics and nonwovens under certain pressures. Also used for pilling property test of most fabrics (especially woolen woven fabrics) under low pressure.

Standards

ASTM D4966	ASTM D4970	ISO 12945-2	ISO 12947-1	FZ/T 20020	BS 3424-24
ISO 5470-2	DIN 53863	JIS L1096	IWS TM 196	EN 388	SATRA TM31

Key Specification

Model No.	YG401B (Plus)	YG401D (Plus)	YG401F (Plus)
Working Station No.	4	6	9
Pressure weight (Abrasion)		(795±7)g, (595±7)g	
Pressure weight (Pilling)		(415±2)g	
Abrading device speed		23.7rpm, 47.5rpm, 71.2rpm	



YG522N Taber Abrasion Tester

Application

The tester can be used for the abrasion resistance test of different materials, cooperated with different standard abrasive wheels.

Standards

ISO 5470-1	ISO 9352	DIN 53863.2
ASTM D4060	ASTM D3884	ASTM D3389

Key Specification

Rotary platform diameter	Normal type: Φ100mm; Tension type: Φ90mm
Load weight	125g(2 pcs), 250g(2 pcs), 750g(2 pcs)
Counting range	1 ~ 99,999, LED display



DW5430T

DW5430/DW5430T Series Universal Wear Tester

Application

It's used to determine the wear and abrasion resistance of fabrics.

Standard

ASTM D3514	ASTM D3885	ASTM D3886
AATCC TM120	AATCC TM119	JIS L 1096

Key Specification

Model No.	DW5430	DW5430T
Control mode	Dial	Touch screen
Stroke length	About 1"(25mm)	
Speed	120cycles/min	
Weights	0.5Lb×2, 1Lb×2, 2Lb×1	
Air pressure range and accuracy	0~99.99kPa(0~14.5psi), ±0.2kPa	

DW5432 Oscillatory/Wyzenbeek

Cylinder Abrasive Machine



Application

For testing the wear resistance of fabric, leather, imitation leather, and provides reference for improving fabric.

Standards

BS EN ISO 12402-7 | ASTM D4157 | FED(FMST) 191A 5304

Key Specification

Position No.	4
Oscillating travel	(76±2)mm
Oscillating speed	(90±1)r/min
Specimen tension	1~6 lbf
Specimen load	2~4 lbf

DW5433 Accelerator Abrasion Tester



Application

To determine linear density of single fiber by means of vibroscope method. The natural vibration frequency of fiber is measured under specific vibration length and tension and its linear density is calculated by string vibration equation.

Standards

AATCC TM93

Key Specification

Test speed	0~3000r/min

FY227 Series Random Tumble Pilling Tester



Application

To determine the pilling and fuzzing characteristics of textile fabrics.

Standards

ISO 12945-3 | ASTM D3512 | GB/T 4802.4 | DIN 53867 | JIS L1076-D

Key Specification

Model No.	FY227-II	FY227-IV
Position No.	2	4
Chamber diameter	Φ(146±1)mm	
Air pressure in test chamber	14~21kPa (2~3psi)	

YG502/YG502S Circular Locus Pilling Tester



YG502S

Application

To determine the fabric propensity to surface fuzzing and to pilling by circular locus method.

Standards

GB/T 4802.1 | DIN 53863.2

Key Specification

Model No.	YG502	YG502S
Control mode	Counter	Touch screen
Motion track	Circular Φ(40±1)mm	
Rubbing speed	(60±1) r/min	

YG511 Series Pilling and Snagging Tester



Application

To determine the surface fuzzes and pilling properties of both woven and knitted materials.

Standards

ISO 12945-1	BS 5811
ICI TEST METHOD 444	JIS L1058

Key Specification

Model No.	YG511-II	YG511-IV	YG511-VI
Test Item	2	4	6
Rotational speed		60 r/min	
Specimen tube size		Φ32×140mm	
Specimen tube weight		52.5g	

YG511B Series Octagonal Snagging Tester



Application

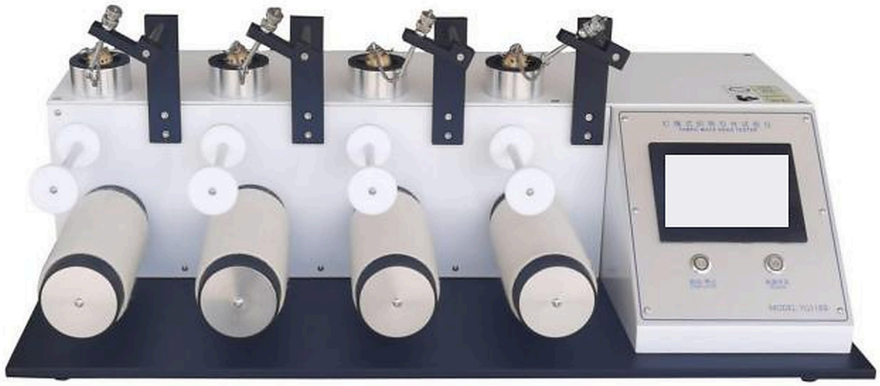
For determining the propensity of knitted and woven fabrics to snagging by rotating chamber method.

Standard

BS 8479

Key Specification

Model No.	YG511B-II	YG511B-IV
Test Item	2	4
Rotational speed	(60±2)r/min	



YG518S

YG518E/S ICI Mace Snag Tester

Application

To rapidly determine the tendency of fabrics to snag, (pull yarn loops from fabric) in normal wear.

Standard

ASTM D3939 | GB/T 11047 | JIS L1058

Key Specification

Model No.	YG518E	YG518S
Control	Counter	Touch screen
Speed	60rpm±2rpm	
Mace ball	Mass: (160±10)g, 11 maces	
Guide rod	Φ10mm, working width 125mm	



DW5080 Bean Bag Snag Tester

Application

To determine the snagging and picking characteristics of knitted and woven fabrics.

Standard

ASTM D5362 | JIS L1058

Key Specification

Testing speed	20±3 r/min
Baffle bar qty.	8pcs for each cylinder
Baffle bar size	Φ8×127mm with 9pins on it

YG908E Snagging Assessment Viewer



Application

To assess the snagging degree on fabrics, whether against control fabrics or photographs

Standard

ASTM D3939 | GB/T 11047 | JIS L1058

Key Specification

Light source	Quartz halogen lamp,12V 55W
Lamp life	500h

DW0227 Universal Pilling and Snagging Assessment Viewer



Application

To assess the snagging degree on fabrics, whether against control fabrics or photographs.

Standard

ISO 12945-1/2/3 | ASTM D3512 | ASTM D4970 | ASTM D5362 | BS 5811

Key Specification

Light source	D65 lamp



FY012J Glove Cut Resistance Tester

Application

To determine the blade cut resistance property of materials from protective gloves, but not suitable for hard materials.

Standards

PROTECTIVE GLOVES	EN 388: 2003 6.2
UPPER (OF A SHOE)	ISO 20344: 2004 6.14

Key Specification

Load	(5±0.05)N
Stroke	50mm
Max. cutting speed	10cm/s