

MAGTM

beyond quality



BASIC LAB PRODUCTS



GINNING & SPINNING

Complete Testing Solution

GINNING | SPINNING | WEAVING | KNITTING | PROCESSING | APPARELS | GARMENTS



Fibre

Page 05-07

- Length
- Strength
- Fineness
- Fibre Colour
- Trash
- Sliver / Roving Preparation



Yarn

Page 08-11

- Moisture
- Lea Preparation
- Hank and Lea Count
- CSP Tester
- Lea Strength
- Twist
- Yarn Appearance

General

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- Splice Strength
- Cone Collapsing
- Bursting
- Package Hardness Tester

Instrument' s Choice

Page 13



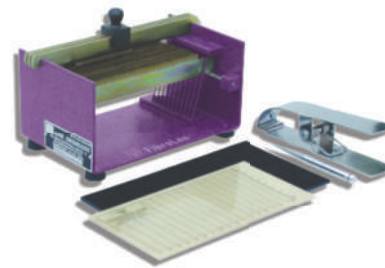
Length

ASTM D1440 | 1447 | BS 4044 | IS 233 | IWTO 1-66



DigiLen / XT

- Compact instrument for testing the fibre length.
- Measurement of fibre length in terms of HVI mode (UHML, ML, UI & SFI) and ICC mode (2.5% SL, 50% SL, UR% & SFI) as per customer's choice.
- Possible to interface with PC and reports can be printed.
- Calibration with National / International cotton.



FibroLen

- Conventional instrument for testing the fibre length (Baer sorter).
- Easy to extract and obtain 2.5% SL, 50% SL & Short fibre content.



Strength

ASTM D 1445 | ISO 3060 | BS 5116 | IS 3675



Optional

FibroStelo

- Conventional instrument for fibre bundle strength testing.
- Accessories are provided to make the testing easier.
- Possible to test Cotton, Polyester, Viscose, Linen & Jute.
- Balance 0.1mg accuracy (optional)



Fineness

ASTM D 1448 | ISO 2403 | BS 3181 | IS 3674



DigiMic XT

- Built-in re-chargable battery to enable field testing.
- Built-in compressor to avoid external compressed air source.
- Storage and retrieval of last 1000 readings.
- Results in alphanumeric LCD display.
- Provision to see Maturity Ratio through MicSoft.

Optional

- Mini printer / Data transfer to computer and reporting through 'MicSoft' software.



FibroMic XT

- Portable and handy version for micronaire testing.
- Operates with electric power and easy mobility.
- Built-in compressor to avoid external compressed air source.
- Calibration with National / International cotton.



SmartColour

Instrument for measuring the color of cotton fiber like,

- Reflectance % (Rd)
- Degree of Yellowness (+b)
- Color Grade (CG)

Calibration by USDA Calibration Color Tiles (American Upland)



AccuTrash

- Advanced true trash separation by gravimetric method with buoyancy technique.
- Provision to measure Trash, Lint, Dust and Micro-dust individually.
- Automatic weighing of trash to ensure accurate results.
- Flexible sample size up to 100 grams.
- Windows based user friendly software with enhanced report options.



EleTrash 2

- Table top model for trash separation by gravimetric method with buoyancy technique.
- Provision to measure Trash, Lint, Dust and Micro-dust individually.
- Flexible sample size of 50 to 100 grams.
- Wide sample feeding area for faster testing.
- Independent drive mechanism for feed and opening rollers.
- Feed and opening roller speeds can be changed through display.



SmartBlock BXT

- Advanced & motorised instrument for preparing the sliver and roving sample.
- Soft-start and soft-stop ensures stretch-free sampling.
- Provision to select preset Imperial & Metric lengths for hank measurement.
- Manual sliding cutter for making precise edge cuts.



MotoHank L

- Wrap Block in Trolley with weighing Balance & Laptop loaded with software.
- Drum width : 4"/14"/18".
- Circumference: 1 Yard.
- In Built UPS



FibroBlock 518/514

- Manual bed type variant for preparing the sliver and roving sample.
- Length indication in battery operated counter.
- Available model to accommodate 16" & 12" lift bobbin.
- Drum circumference is one yard.
- Drum circumference in meter is also available.



MotoHank T

- Wrap Block in Trolley with weighing Balance & TAB loaded with software.
- Drum width : 4"/14"/18".
- Circumference: 1 Yard.
- In Built UPS



FibroBlock 504

- Portable design with manual operation.
- Drum circumference is one yard / width 4".



MotoHank

- Wrap Block in Trolley with weighing Balance.
- Drum width : 4"/14"/18".
- Circumference: 1 Yard.



DigiMoist

- Measurement of moisture content in cotton, polyester, viscose and extended options for rayon, jute, silk, wool & linen.
- Exclusive probes for raw material, bale, cone / cheese yarn and fabric.
- Built-in re-chargeable battery to enable spot testing with digital readout.



ASTM D1578|1907 | IS 1315|1671 | BS EN ISO 2060

EleWrap 6/6M

- Pre- selectable rotation upto 999.
- Provision to take any length upto 1500 yards / 999 meters.
- 1.5 Yard / 1 meter girth respectively.
- All in one, cop / cone stand provided.



ASTM D1578 | 1907 | ISO 6939 | IS 1315 | 1671

CompuCount

- Measurement of count in any form such as sliver, roving and yarn
- Possible to measure any type of count system
- A combination of
 - Electronic Balance
 - CountSoft - Count Software
 - Computer with Printer (Optional supply)





ComboData DXT

- A combined CSP system consists of AutoStretch 4 – Automatic Lea Strength Tester includes Single Yarn Strength module (Tenacity).
- **SpinSoft** – Preparatory, spinning analytics and post spinning software.
- Electronic Balance with 0.001g accuracy. (optional)
- Computer with Printer (optional supply).
- In-built RH monitoring.
- Working under CRE principle with 700 lbs capacity.



Single Yarn Strength Module (Tenacity)

- Capacity : 22 lbs
- Testing speed: 500 mm / min.
- Single yarn strength unit: gf / cNf / Nf.
- RKM (Tenacity unit): cN / tex & g / tex.
- Elongation unit : % / mm / inch.
- Pneumatic Clamp



ComboData XT

- A combined CSP system consists of EleStretch XT – Electronic Lea Strength Tester.
- **SpinSoft** – Preparatory, spinning analytics and post spinning software.
- Electronic Balance with 0.001g accuracy (optional).
- Computer with Printer (optional supply).
- Capacity : 500 lbs



SpinSoft, an ultimate windows based core software package to evaluate lea count and strength (CSP).

Spinsoft Provides :

- (a) CSP analysis including separate hank, count and strength in statistical and graphical format.
- (b) Provision to test A%, Stretch % and Nail % tests.
- (c) Wheel change advice, significant differences, expected CSP calculations and conversion tables.
- (d) Facility to accommodate different type of electronic balance for count and hank measurement.
- (e) Individual operator password security system.
- (f) Search and Report option : ID wise / Count wise / Date wise / Machine wise and Consolidated.
- (g) Printing option : Portrait and Landscape format.
- (h) Results : Average, Min. & Max., SD, CV%, RH corrected, Trend chart, Histogram and Control chart.



AutoStretch 4

- Ergonomically designed; Rugged **floor model** with double column mechanism.
- Working under CRE principle with 700 lbs capacity.
- User friendly Menu navigation through soft touch membrane keypad.
- Elongation through encoder mechanism.
- Traverse speed from 100 mm per / min. to 500 mm / min.
- Automatic upward / downward moments of lower jaw to reduce the testing time.
- Maintenance-free inline drive system for quiet and trouble-free operation
- In-built RH monitoring.



EleStretch XT

- **Table top** model with single screw rod mechanism.
- Detachable micro controller based navigation unit for easy maintenance.
- Geared motor ensures noise free operation.
- Available capacity : 500 lbs



MecStretch XT

- **Wall mountable** variant with a gear motor driven mechanism.
- Results in LED display.
- Available capacity : 300 lbs



CompuTwist

- A combination of
EleTwist – Electronic Twist Tester
TwistSoft - Twist analysis Software
Computer with Printer (optional supply)



EleTwist

- Stand-alone variant
- Preset data stored in cmos memory without battery supply.



Common Features

- Measurement of twist parameter applied on single, ply and open - end yarns.
- Operating principle : Direct counting and single & multiple untwist - retwist methods.
- Direct TPI / TPM results in LCD display.
- Unique pre-tension arrangements with adjustable gauge length upto 20 inches or 50 cm.
- Silent and integrated motor operation with auto stop system for precise measurement.



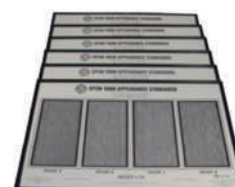
AutoWinder

- Automatic wrapping with pre-settable stopper to view the appearance of the yarn.
- Can accommodate rectangular and tapered boards.
- Models available are
AutoWinder D - 22"
AutoWinder - 12"

Optional

ASTM Standard Boards

1's to 12's, 12's to 24's, 24's to 36's, 36's to 50's, 50's to 75's & 75's to 135's.



SpliceRay

- Splice strength tester in movable trolley.
- Inbuilt Wi-Fi provision to share data to PC / Server.
- Inbuilt thermal printer for instant printing of results.
- Inbuilt UPS.

Different modes of Testing :

- Splice Strength % testing with Individual drum parent yarn.
- Splice Strength % testing with Global parent Yarn.
- RKM Testing of parent yarn.



Package Products

IS 4888 | ISO 8489-5

ASTM D3786 | EN ISO 13938-1 |
ISO 2758 | 2759 | 3689 | BS 3424 | 3137 | IS 1966



DigiCone C

- Table top instrument to measure the collapsing strength of cones or cheeses.
- Provision to test different conacity.



DigiBurst

- Measurement of bursting strength of knitted, woven fabrics as well as paper boards (cartons, pads, etc.,).
- Capacity : 0.5 to 70 kg/cm²



Package Hardness Tester

- Analogue Yarn package Hardware tester to check the hardness of yarn package.

Refer exclusive brochure for MAG - Prime Lab Products

1. High Volume Fiber Tester

- HVT Genius 2 & 2+
- HVT Expert 1201
- HVT Smile 100

2. Evenness Tester

- UH Expert 2012 / 2020

3. Single Yarn Strength Tester (RKM)

- TensoMaster
- TensoLite



S.No.	Instrument	Purpose	Ginning	Spinning	Weaving	Knitting	Processing	Apparels	Garments
01	HVT Series	High Volume Fibre Testing	■	■					
02	DigiLen	Fibre Length	■	■					
03	FibroLen	Fibre Length – Baer Sorter method		■					
04	FibroStelo	Fibre Bundle Strength	■	■					
05	DigiMic XT FibroMic XT	Fibre Fineness / Micronaire	■	■					
06	DigiMoist	Moisture Content	■	■	■	■	■	■	■
07	AccuTrash EleTrash	Trash Content	■	■					
08	SmartBlock	Hank for Sliver & Roving (motorised)		■					
09	FibroBlock Series	Hank for Sliver & Roving (manual & trolley)		■					
10	EleWrap Series	Lea Preparation – Desired length		■	■	■	■	■	■
11	CompuCount	Hank & Count		■	■	■	■	■	■
12	AutoStretch EleStretch MecStretch	Yarn Lea Strength		■	■	■			
13	ComboData DXT ComboData XT	Yarn Lea Count & Strength (CSP)		■	■	■			
14	TensoMaster	Tenacity or Single Yarn Strength properties		■	■	■			
15	SpliceRay	Splicing Strength		■		■			
16	CompuTwist EleTwist	Twist Testing (TPI / TPM)		■	■	■			
17	AutoWinder Series	Yarn Appearance		■					
18	UH Expert Series	Unevenness & Hairiness		■					
19	DigiCone C	Cone Collapsing Strength		■	■	■			
20	Package Hardness Tester	Yarn Package density		■	■	■	■		
21	CircuCut	GSM			■	■	■	■	■
22	TrueShrink	Dimensional changes					■	■	■
23	DigiBurst	Bursting Strength – fabric / carton		■	■	■			■
24	AbraSmart	Abrasion & pilling resistance – Martindale			■	■		■	■
25	MecTear	Ballistic Tearing Strength			■			■	■
26	AccuCrimp	Actual Yarn Usage			■			■	■
27	DigiThick AnaThick	Fabric Thickness			■	■		■	■
28	FabyCount	Yarn count from fabric			■			■	■
29	AutoPill Series	ICI Pilling resistance			■	■		■	■
30	SimCrease	Wrinkle recovery			■			■	■
31	SimStiff	Circular Bend and Stiffness			■			■	■
32	CourseLen	Accurate Length of Course				■			
33	MecSnap	Pulling Strength of Button / Snap						■	■
34	FexMet	Stretch & Recovery				■		■	■
35	UniStretch series	Tensile properties of Yarn, Fabric & Garments							
	Module - 01	Yarn Count & Strength (CSP)			■	■		■	■
	Module - 02	Strip & Grab Strength			■	■		■	■
	Module – 03	Yarn Tenacity			■	■		■	■
	Module – 04	Stretch & Recovery			■			■	■
	Module – 05	Tear - Tongue / Wing-Rip / Trapezoid			■			■	■
	Module – 06	Seam Slippage & Strength						■	■
	Module – 07	Pulling Strength of Button / Snap						■	■
	Module – 08	Zipper Strength						■	■
	Module – 09	Peel Bond Strength						■	■
36	SmartRub XT MecRub XT	Colour Fastness against Rubbing					■	■	■
37	Wash-O-Fast series	Colour Fastness against Washing					■	■	■
38	PerspiRator	Colour Fastness against Perspiration					■	■	■
39	DigiOven	Drier for textile materials	■	■			■	■	■
40	PresoHot series	Colour Fastness against Hot Pressing					■	■	■
41	NanoVision Lite	Colour Matching Cabinet			■	■	■	■	■
42	AutoFlame series	Burning characteristics (flammability)			■			■	■
43	AccuSpray	Water Repellency (spray test)			■	■		■	■
44	IR LabDyer LabDyer series	Sample dyeing					■	■	■
45	WaterBath	Sample dyeing					■	■	■
46	LabPad series	Simulating dyeing mangle functions					■		
47	ASTM Standard Boards	Yarn grading		■					
48	ISO & AATCC Grey Scales	Grading the colour fastness					■	■	■
49	Photographic Standards	Pilling Appearance, Spray Rating etc.			■	■	■	■	■



MAG was established in 1991 with an insight to design and develop testing instruments for Textile industry. Over the years, the company has grown its product portfolio and aligned its offering to the changing industry requirements and technology advancements. Today, MAG Solvics Private Limited is a multi-product, multi-market enterprise that provides total testing solutions and online monitoring solutions for all the segments of Textile industry viz. ginning, spinning, weaving, knitting, processing, apparels and garments all over the world with installations exceeding 9000 units.

The Company is built on a strong foundation of innovation and technological excellence. Continuous focus on research and development, strategic partnerships and a customer-centric approach have marked MAG's 30+ years journey in the textile industry.

Research and Development Our technocrats work in interdisciplinary teams to provide innovative and industry friendly products that ensure our long-term business success. To be able to provide the best possible solutions, MAG has alliances and partnerships with several research organizations, educational institutions and individuals in the industry.

MAG's products are designed compliant to multiple international textile standards such as ISO, IS, BS, ASTM, DIN, AATCC, IWS and are CE marked for safety standards. MAG takes part in the reputed international round trial tests conducted by reputed international bodies such as CSITC and BREMEN. MAG R&D division is recognized by the Ministry of Science and Technology of India.

Customer Support Commitment to customers is one of MAG's strongest driving forces. To underline this commitment, MAG has set up a dedicated customer support team that operates round the clock with a view to provide prompt support to the customers all over the world. Installations by qualified and trained engineers ensure that instruments are installed as specified and the users are educated to operate the instruments properly. Regional service centres are also set up to serve the customers responsively.

Quality MAG demonstrates its commitment to quality by establishing a separate quality assurance division which conducts quality tests on the manufactured products. The MAG quality system is established in line with ISO 9001:2015 Quality Management System Standard. Every manufactured component and product passes through stringent quality audits and tested to ensure performance and reliability in a controlled atmosphere defined by the standards.

Integrated Quality Solutions (IQS) In addition to testing and monitoring products, MAG offers Integrated Quality Solutions (IQS), a comprehensive program that provides the customers with quality solutions such as,

- Designing customized laboratories
- Providing testing and calibration services
- Training personnel to infuse best practices in testing
- Annual maintenance and Operational maintenance contracts



Our Associate

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