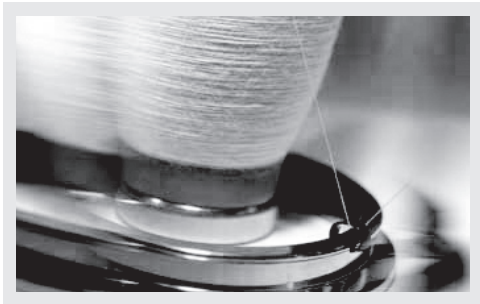


MAG[®]

beyond quality



FIBRE & YARN
Complete Textile Testing Solutions
& Online Monitoring System

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

Content



Fibre **Page 03-07**

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



Yarn **Page 08-11**

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- Yarn Strength
- Lea Preparation
- Hank and Lea Count
- Hank, Lea Count & Strength (CSP)
- Lea Strength
- Twist
- Yarn Appearance
- Splice Strength

Package Products **Page 12**

- Cone Collapsing
- Bursting
- Package Hardness Tester



Online Spindle Monitoring **Page 12-14**

- SPinFO



Fully Automatic High Volume Fibre Tester

ASTM D5867



HVT Genius 2/2⁺ (with Trash Separator)

Fully Automatic High Volume Fibre Tester

- Unique tower type construction.
- Fully automatic comb preparation (RotoSampler) for testing the Length & Strength.
- Automated feeding in Micronaire (Fineness) module.
- Inbuilt Air booster & Reservoir for uninterrupted testing.
- Measures cotton quality parameters – Length, Strength, Micronaire, Maturity, Colour, Surface Trash and Moisture.
- Possible to measure real trash also.
- Calibration in both ICC / HVI mode by USDA or any other international calibration cotton.



Automatic High Volume Fibre Tester

ASTM D5867 | D2812 & ITMF

HVT Expert 1401

- Determines the fibre properties such as Length & Strength; Micronaire & Maturity; Moisture & Color and Real Trash Content.
- Calibration in both ICC & HVI mode by USDA and any other international calibration cotton.
- Automated fiber comb sampling for better sampling repeatability and avoid operator influence.
- Intelligent pressure mechanism for accurate beard collection irrespective of sample size.
- Advanced trash separation by buoyancy separation technique by the use of air currents.
- Parallel as well as simultaneous operations ensure faster testing.
- Flexible report options like date wise, lot wise, cotton type wise as well as consolidated reports.



High Volume Fibre Tester

ASTM D5867

HVT Expert 1201

- High Volume Fibre tester for Length, Strength, Mironaire, Maturity, Color & Moisture.
- Calibration in both ICC / HVI mode by USDA or any other international calibration cotton.
- Combined and independent module testing.
- Optional Supply : Surface Trace

Other model :

- HVT Expert 1301





ASTM D5867

HVT Smile 100

- Determine the fibre properties such as Length & Strength; Micronaire & Maturity.
- “HVT Smile 100” provides smiles in all aspects including output results, reliability, repeatability and quality of product in an affordable cost.
- Specially designed in-built Fibro-Sampler avoids additional space requirement.
- Separate compartment for pneumatic and electronics assembly for easy maintenance and servicing.
- Calibration in both ICC & HVI mode by USDA and any other international calibration cotton.
- Flexible report options like date wise, lot wise, variety wise as well as consolidated reports.



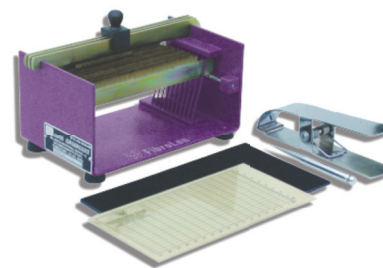
Length

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



DigiLen / XT

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



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

FibroStelo

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





ASTM D2812 | BS 2889 | IS 4871

AccuTrash 2H/2C* - Automatic Trash Tester

- To determine the percentage of trash, lint and dust content within a sample of raw cotton, blow room lap, carding sliver etc.
- Suitable for feeding upto 100 grams of cotton samples.
- Operates under the principle of gravimetric and buoyancy separation by the use of air currents.
- Wide sample feeding area for fast testing.
- Multi-segmented finger type feeder segments for better grip and opening.
- HMI for ease of testing and results.
- In-built mini printer for results printing and results can be copied through pen drive.
- Safety sensors for lint and trash doors for operator safety.
- Optional :- *PC Version also available.



ASTM D5867

**DigiColour**

- Instrument to measure cotton colour parameter – Reflectance % (Rd), Yellowness (+b) and colour grade (CG) based on American Upland Cotton grade.
- Compact and table top model.
- Touch display for easy operations.
- In built Wi-Fi for data transferring to PC and view reports through DigiColour software.
- Provision to copy the results through pen drive.
- DigiColour XT – Trolley model with battery available for testing in cotton godown.
- Calibration by USDA Calibration Color Tiles.



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

DigiMic XT

- Built-in re-chargeable 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.
- Calibration with National / International cotton.
- Provision to measure Viscose / Linen Fibre.

**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.



EleTrash 2 - Electronic Trash Separator

- 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 upto 100 grams.
- Wide sample feeding area for faster testing.
- Independent drive mechanism for feed and opening rollers enabling possibility to change speeds.
- Low power consumption.



DigiMoist / XT

- 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.



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.



FibroBlock 504

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



SmartBlock 2

- 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
- Provision available with automatic Wrap Block also (SmartBlock 2)
- Possible to provide data to centralised PC for ERP and other purpose.



MotoHank T

- Wrap Block in Trolley with weighing Balance & TAB loaded with software.
- Drum width : 4"/14"/18".
- Circumference: 1 Yard.
- In Built UPS
- Provision available with Automatic Wrap Block (SmartBlock 2)
- Possible to provide data to centralised PC for ERP and other purpose.



MotoHank

- Wrap Block in Trolley with weighing Balance.
- Drum width : 4"/14"/18".
- Circumference: 1 Yard.
- Provision available with Automatic Wrap Block (SmartBlock 2)



UH EXPERT 2012

Evenness Tester with Hairiness Index

- Measurement of Unevenness properties of yarn, roving and sliver including Hairiness of yarn.
- Advanced technology and user friendly operation with perfect graphical and numerical results.
- Automatic yarn changer assembly upto 20 packages.
- UH Expert 2020 - Fully automatic evenness tester is also available.

Automatic Single Yarn Strength Tester

ASTM D2256 | ISO 2062 | IS 1671

TensoMaster

- Fully automatic feeding of samples upto 20 packages.
- Measurement of Single yarn strength, Elongation & RKM (Tenacity) of all kinds of yarn.
- Works in CRE principle.
- Capacity upto 500 N
- Test speed 100-5000 mm/min & Elongation range upto 900%
- Graphical results - FE curve, Stroke diagram, Scatter diagram, FD curve & AIO graph.
- Numerical results - Breaking Force, Breaking Elongation, Breaking Tenacity, Time to Break, Work done.



Semi-Automatic Single Yarn Strength Tester

ASTM D2256 | ISO 2062 | IS 1671

TensoLite

- Semi-automatic instrument – Manual sample feeding.
- Works in CRE principle.
- Cone and cop stand provided
- Capacity 50 N
- Test speed 100-5000 mm/min & Elongation range upto 800 %
- Three modes for test start – Hand sensor, Foot press and Push button.
- Graphical results - FE curve, Stroke diagram, Scatter diagram, FD curve & AIO graph.
- Numerical results - Breaking Force, Breaking Elongation, Breaking Tenacity, Time to Break, Work done.





EleWrap 6/6M

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



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 system to calculate Lea CSP of yarn.

- ComboData DXT - AutoStretch 4 with SpinSoft software + Balance.
- SpinSoft software can be used to calculate noils% of comber, stretch% in speed frame and A% in auto leveler drawframe.
- Single yarn strength and RKM can also be determined in ComboData DXT. (Optional)
- Electronic Balance with 0.001g accuracy.
- Computer with Printer (optional supply).
- In-built RH monitoring.



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



- ComboData XT - EleStretch XT with SpinSoft software + Balance.
- SpinSoft contains, a) CSP analysis including separate count, strength in statistical and graphical format. b) Wheel change advice, significant differences, expected CSP calculations and conversion tables.
- Selectable force unit: lbf, Kgf and Nf; selectable elongation unit: mm, inch and percentage.
- Electronic Balance with 0.001g accuracy.
- Computer with Printer (optional supply).



AutoStretch 4

- Ergonomically designed; Rugged floor model with double column mechanism.
- Working under CRE principle with 700 lbs capacity. (Provision for 1000 lbs).
- User friendly Menu navigation through soft touch membrane keypad.
- Elongation through encoder mechanism.
- Traverse speed from 100 mm / 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

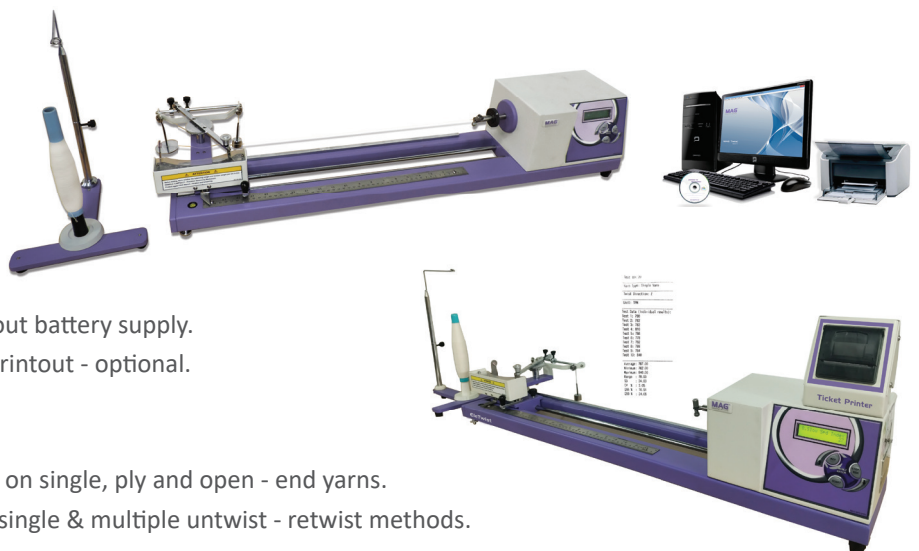
- A combination of
EleTwist – Electronic Twist Tester
TwistSoft - Twist analysis Software and
Computer with Printer (optional supply)

EleTwist

- Stand-alone variant
- Preset data stored in cmos memory without battery supply.
- Inbuilt thermal printer for instant result Printout - optional.

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.





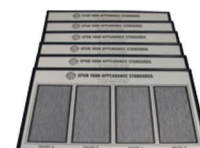
AutoWinder

- 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.



Splice Strength

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.



Trolley Model



SpliceRay Lite :

- Table Top Model to use in quality laboratory.
- Operates against the power supply.

Computerised Yarn Abrasion Tester

AbraTest

- Determine the abrasion resistance of yarns in weaving, knitting and sewing.
- Best inter-comparison between different yarn counts and type using Relative Resistance Index (RRI) value.
- 20 yarn test positions with standardized weights and automatic stop motion.
- Computer controlled instrument. User friendly, software records number of abiding cycle achieved for each specimen.
- Window based software facilities statistical and graphical reports.



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 conicity.
- PC Version also available. (DigiCone C XT)



Package Hardness Tester

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



DigiBurst

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



Online Spindle Monitoring System

SPinFO

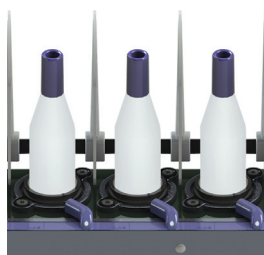
SPinFO - Online Spinning Information System is offered in two variants in terms of detection technology, the differential EMF detection and optional detection.

Monitoring Parameters

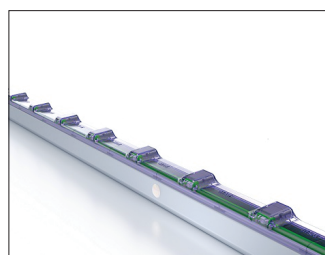
- | | | |
|--|---|---|
| <ul style="list-style-type: none"> • Production • Waste • Doffs • Stoppage • End Breaks | <ul style="list-style-type: none"> • Rogue Spindles • Slip Spindles • Idle Spindles • Fluff Obstruction (with optical detection version) • Twist & Draft | <ul style="list-style-type: none"> - Optional :- Roving Stop Motion Power Consumption Air Consumption Temperature & RH Pneumafil Suction Control |
|--|---|---|

Technology

- Spindle level monitoring through two technological variants - Differential EMF detection and Optical detection.
- Proximity detection technology for monitoring Production, Drafts and Doffs.
- Wireless Data transmission to reduce wiring complexity and maintenance.
- Server client configuration to enable simultaneous and multiple user access to the data.



Differential EMF



Optical



Extensive Displays and Reports

Spindle Level

Two colour LED with two types of indication for each spindle to indicate deviations instantly. Solid red - End Breaks, Red blinking - Idle Spindle, Solid blue - Rogue Spindle and blue blinking - Slip Spindle.



Sectional Level

Single colour White LED at every section of Ringframe helps the operator to identify the deviations from long distances



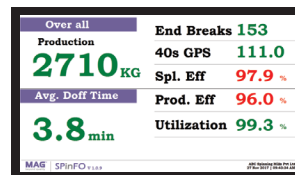
Machine Level

Machine Information unit displays the spindle efficiency, end breaks, rogue, slip, idle spindles and consumption for each side of the machines individually. Alerts for excessive end breaks and upcoming doffs through signalling lamps.



Block Level

Block level live statistics for the current shift is displayed in a Large information panel (LED TV). Data selection can be done remotely.



Plant Level

Information about all the resources throughout the plant can be obtained from the client software that features a Dashboard, Dynamic Analysis and Reports.



Mobile App, Mail and SMS

Alerts and Periodic reports via Mobile App, Mail and SMS to defined persons.



Dynamic and User friendly Software

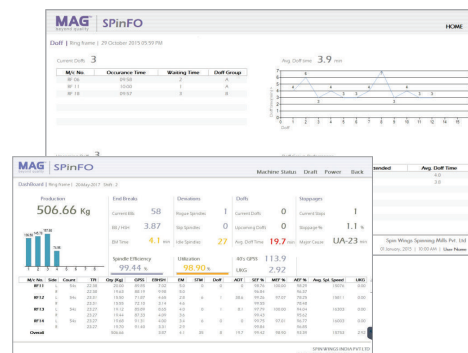
- The software has been designed to furnish the right data to the right person at the right time.
- WIndows based informative and user frindly software.
- Well organised dash board renders two-level graphical infromation about the current shift.

End Breaks Monitoring



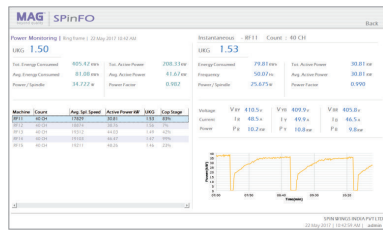
Machine Status Display

Doff Monitoring

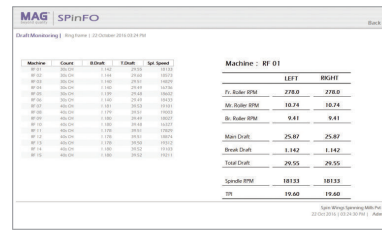


Draft Monitoring

- Power and Draft monitoring with average and instantaneous values in graphical form.



Power Monitoring



Draft Monitoring

Vital Analysis and Reports

- Dynamic Analysis facilitates numerical as well as graphical analysis of the data through,
 - Detailed Analysis
 - Comparative Analysis with Graph
 - Trend Analysis with Graph
 - Speed curve analysis
- Comparative report with sort and filter options for easier and faster analysis.
- Analysis Results can be exported to Excel for sharing and storing.

Comparative Analysis



Speed Curve Analysis

Detailed Analysis



Power Analysis

- Report types**
 - Overall
 - Production
 - End Breaks
 - Deviations
 - Stoppages
 - Power Consumption
- Report grouping**
 - Machine wise
 - Machine group wise
 - Operator wise
 - Supervisor wise
 - Block wise
 - Count wise
- Reports with multiple and instant filter options.
- User configurable report parameters.
- Automatic orientation of the reports for paper conservation.
- Data rich MIS Report with graphs for quick and easy analysis of the situation.
- Print and export to MS excel or PDF options.

Roving Stop Motion (RSM)

Advantages:

- Reduces waste
- Prevents Roller lapping
- Prevents multiple yarn breaks
- Optimizes the resources



Application range:

- 6s Ne to 240s Ne
- Suitable for all types of Material, Machine No. of spindles & section

Instruments available for Fabric, Processing & Garments

S.No.	Instruments	Generic Name
1	DigiMoist	Digital Moisture Meter for Fabric and Processing
2	CircuCut XT with GSM Balance	GSM Cutter - Shearing Type
3	TrueShrink 25/30/50/UNI	Shrinkage Measuring Template & Scale
4	DigiBurst	Digital Bursting Strength Tester
5	MecTear / MecTear HD	Tearing Strength Tester — Elemendor Type
6	AccuCrimp	Crimp Length Tester
7	AnaThick	Analog display
8	DigiThick Lite	Thickness Gauge with digital
9	FabyCount	Beesley's Balance
10	DigiOven 2	Hot Air Oven — Digital (Low / High Temperature)
11	AbraSmart	Abrasion cum Pilling Tester - Martindale Type
12	AutoPill2BX/4BX Pilling Photograph	ICI Pilling Tester — 2 Boxes / 4 Boxes Pilling Photograph (Knitted & Woven)
13	FexMet	Fabric Stretch and Recovery Meter (Extensio Meter)
14	SimCrease	Crease Recovery Tester
15	SimStiff	Fabric Stiffness Tester
16	AutoFlame I/AutoFlame V	Flammability Tester — 45° / 90°
17	AccuSpray	Spray Rating Tester
18	UniStretch 250/500/1000	Multi Strength Tester with Various Modules
	Module 1	Strip & Grab Strength (Tensile)
	Module 2	Tear Test Module
	Module 3	Stretch & Recovery
	Module 4	Yarn Count & Strength (CSP)
	Module 5	Yarn Tenacity (Single Yarn Strength)
	Module 6	Peel Bond Strength
	Module 7	Seam Slippage
	Module 8	Button / Snap Pull Strength Tester
	Module 9	Zipper Strength
19	NanoVision Lite/4 Feet	Color matching cabinet - Metal
20	MecSnap	Button / Snap Pull Strength Tester — Manual
21	AbraTest	Yarn Abrasion Tester
22	Air Permeability Tester H	High Capacity Air Permeability
23	Pick Glass	Pick Glass for EPI & PPI Measurement
24	Package HardnessTester	Package Hardness Tester
25	Wash-O-Fast 508/520/1209	Laundrometer - (550 ml x 8 / 20 Jars or 1200 ml " 9 Jars)
26	Wash-O-Fast U08/U16	Laundrometer - (combination of 550 ml x 4 Jars & 1200ml Jars or 550ml x 8 Jars + 1200ml x 8 Jars)
27	WashSoaper	Soaping Machine
28	WashDurator	Print Durability Tester
29	PillVision	Pilling Vision
30	PresoHot / PresoHot XT	Scroch/Sublimation Tester-Single Head/3 Heads
31	Water Bath	WaterBath-12 Pots
32	Padding Mangle - Vertical / Horizontal	Laboratory Padding Mangle Vertical / Horizontal
33	PH Meter / TDS	PH Meter with/without TDS
34	ISO Grey Scale - Change in Color	SDC Grey scale - Change in Color
35	ISO Grey Scale - Staining	SDC Grey scale - Staining
36	AATCC Grey Scale - Change in Color	AATCC Grey scale - Change in Color
37	AATCC Grey Scale - Staining	AATCC Grey scale — Staining

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

MAG Solvics Private Limited

S. F. # 149/5, Dynamic Center, Solavampalayam (PO),
Kinathukadavu, Coimbatore - 642 109. I N D I A
T : +91 4259 2427 00 | F : +91 4259 2967 11
E : marketing@magsolvics.com | W : www.magsolvics.com