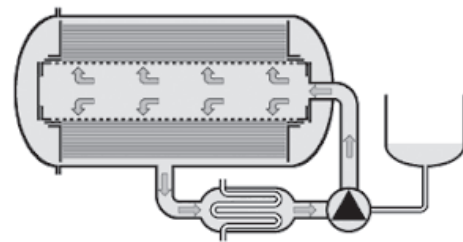
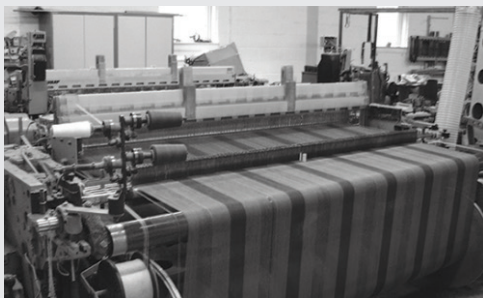
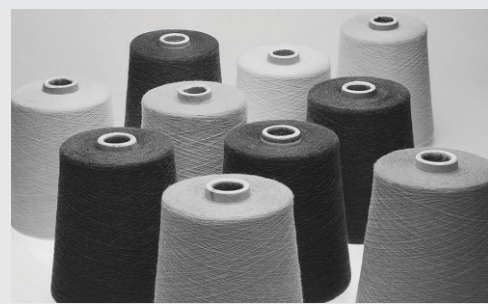
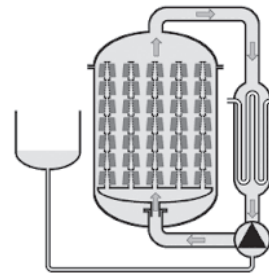


MAG[®]

beyond quality



35 YEARS
Quality &
Innovation

FABRIC, PROCESSING & GARMENTS
Complete Testing Solutions

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

Recommended Instruments for Fabric Forming

S.No	Instruments	Purpose	Weaving	Knitting	Non - Wovens	Carpet	Technical Textiles	Warping/ Sizing	Garments
1	DigiMoist	Digital Moisture Meter	●	●	●	●	●	●	●
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 – Elemendorf Type	●		●	●	●		●
6	AccuCrimp	Crimp Length Tester	●						
7	AnaThick	Thickness Gauge with digital	●		●	●	●		●
8	DigiThick Lite	Analog display	●		●	●	●		●
9	FabyCount	Beesley's Balance	●						
10	DigiOven/DigiOven XT / DigiOven 2	Hot Air Oven – Digital (Low / High Temperature)/ Forced Air Oven		●	●	●	●		●
11	AbraSmart	Abrasion cum Pilling Tester - Martindale Type	●	●	●	●	●		●
12	AutoPill 2BX/4BX	ICI Pilling Tester – 2 Boxes / 4 Boxes	●	●	●	●	●		●
13	FexMet	Fabric Stretch and Recovery Meter (Extensio Meter)	●	●	●	●	●		●
14	SimCrease	Crease Recovery Tester	●		●	●	●		●
15	AutoFlame I/AutoFlame V	Flammability Tester – 45° / 90°	●		●	●	●		●
16	AccuSpray	Spray Rating Tester	●		●	●	●		●
	UniStretch 250/500/1000	Multi Strength Tester with Various Modules							
	Module 1	Strip & Grab Strength	●		●	●	●		●
	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							●
18	NanoVision Lite -4 Feet/2Feet	Color matching cabinet - Metal	●	●	●	●	●		●
19	MecSnap	Button / Snap Pull Strength Tester – Manual							●
20	AbraTest	Yarn Abrasion Tester	●					●	
21	Air Permeability Tester H	High Capacity Air Permeability	●		●	●	●		
22	Tachometer	Tachometer	●	●	●	●	●	●	●
23	Pick Glass	Pick Glass	●						
24	Package Hardness Tester	Package Hardness Tester	●	●		●	●	●	
Supporting Instruments									
25	EleWrap 6	Electronic Wrap Reel - Lea Preparation	●	●		●	●	●	
26	CompuCount	Computerised Yarn Count Tester	●	●		●	●	●	
27	ComboData DXT/Combo Data XT	Computerised Lea Count ; Strength & CSP Tester	●	●		●	●	●	
28	CompuTwist/EleTwist	Computerised Yarn Twist Tester	●	●		●	●	●	
29	AutoWinder Series	Motorised Yarn Appearance Board Winder upto 12" / 22"	●	●				●	
30	TensoMaster/TensoLite	Fully Automatic Computerised Single Yarn Strength Tetser Semi Automatic Computerised Single Yarn Strength Tetser	●			●		●	

Recommended Instruments for Processing & Garments

S.No.	Product Name	Generic Name	Knit Dye House	Knit Finish House	Woven Dye House	Woven Finish House	Denim Dye House	Denim Finish House	Package Dye House	Printing
1	DigiMoist	Digital Moisture Meter	■	■	■	■	■	■	■	
2	CircuCut XT	GSM Cutter - Shearing Type	■	■	■	■	■	■		
3	MecRub XT / SmartRub XT	Advanced Crock Meter – Hand Driven / Motorized	■	■	■	■	■	■	■	■
4	Wash-O-Fast 508/520/1209	Laundrometer (550 ml x 8 / 20 Jars or 1200 ml * 9 Jars)	■	■	■	■	■	■	■	■
	Wash-O-Fast U08/U16	Laundrometer - (combination of 550 ml x 4 Jars & 1200ml x 4 Jars or 550ml x 8 Jars + 1200ml x 8 Jars)	■	■	■	■	■	■	■	■
5	WashSoaper 224	Soaping Machine		■				■		■
6	WashDurator	Print Durability Tester	■		■				■	■
7	LaboDyer R16	IR Lab Dyeing Machine (200ml / 250ml x 16 beakers & 500ml x 12 beakers)	■		■		■		■	
	LaboDyer R24	IR Lab Dyeing Machine (200ml / 250ml x 24 beakers & 500ml x 20 beakers)	■		■		■		■	
8	TrueShrink 25 / 35 / 50	Shrinkage Measuring Template & Scale – 25 cm x 25 cm or 35 cm x 35 cm or 50 cm x 50 cm	■	■	■	■	■	■		■
	TrueShrink UNI	Shrinkage Measuring Template & Scale – Universal	■	■	■	■	■	■		■
9	DigiBurst	Automatic Digital Bursting Strength Tester	○	○	○	○	■	■		○
10	MecTear / MecTear HD	Tearing Strength Tester – Elemendorf Type			■		■			
11	AccuCrimp	Crimp Length Tester			■		■			
12	AnaThick	Analog Thickness Gauge	■	■	■	■	■	■		
13	DigiThick Lite	Thickness Gauge with digital display	■	■	■	■	■	■		
14	FabyCount	Beesley's Balance			■		■			
15	PerspiRator / PerspiRator DX	Perspiration Tester	■	■	■	■	■	■	■	■
16	DigiOven/DigiOven XT /DigiOven 2	Hot Air Oven – Digital (Low / High Temperature)/ Forced Air Oven	■	■	■	■	■	■	■	■
17	AbraSmart	Abrasion cum Pilling Tester- Martindale Type	■	■	■	■	■	■		
18	AutoPill 2BX / 4 BX	ICI Pilling Tester – 2 Boxes / 4 Boxes	■	■	■	■	■	■		
	Pilling Photograph	Pilling Photograph (Knitted & Woven)	■	■	■	■	■	■		
19	PillVision	Pilling Vision	■	■	■	■	■	■		
20	FexMet	Fabric Stretch and Recovery Meter (Extensio Meter)		■		■		■		
21	SimCrease	Crease Recovery Tester				■		■		
22	SimStiff	Fabric Stiffness Tester				■		■		
23	AutoFlame I / AutoFlame V	Flammability Tester – 45° / 90°				○		○		
24	AccuSpray	Spray Rating Tester	■	■	■	■	■	■		■
25	PresoHot / PresoHot XT	Scroch / Sublimation Tester -Single Head / 3 Heads	■	■	■	■	■	■	■	■
26	UniStretch 250/500/1000	Multi Strength Tester with Various Modules								
	Module 1	Lea Test Module							○	
	Module 2	Strip & Grab Strength Test Module			■	■	■	■		
	Module 3	Tenacity Test Module							○	
	Module 4	Tear Test Module			■	■	■	■		
	Module 5	Stretch & Recovery Test Module			■	■	■	■		
27	NanoVision Lite - 4 Feet / 2 Feet	Color Matching Cabinet – Metal Body	■	■	■	■	■	■	■	■
28	Water Bath	Water Bath – 12 Pots	■		■		■		■	
29	Padding Mangle - Vertical / Horizontal	Laboratory Padding Mangle Vertical / Horizontal		■		■		■		
30	PH Meter / TDS	PH Meter with / without TDS	■	■	■	■	■	■	■	
31	Package Hardness Tester	Package Hardness Tester							■	
32	ISO Grey Scales - Change in color	SDC Grey scale - Change in Color	■	■	■	■	■	■	■	■
33	ISO Grey Scales - Staining	SDC Grey scale – Staining	■	■	■	■	■	■	■	■
34	AATCC Grey Scales - Change in color	AATCC Grey scale - Change in Color	■	■	■	■	■	■	■	■
35	AATCC Grey Scales - Staining	AATCC Grey scale – Staining	■	■	■	■	■	■	■	■
36	EleWrap 6	Electronic Wrap Reel - Lea Preparation							○	
37	CompuCount	Computerised Yarn Count Tester							○	
38	ComboData XT /DXT	Computerised Lea Count ; Strength & CSP Tester							○	
39	CompuTwist	Computerised Yarn Twist Tester							○	
40	TensoMaster	Fully Automatic Computerised Single Yarn Strength Tetser							○	
41	TensoLite	Semi Automatic Computerised Single Yarn Strength Tetser							○	

○ Optional

■ Recommended



DigiMoist / XT

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



ASTM 3776 | IS 1964 | BS EN 12127



CircuCut XT

- Precise sample cutter to measure the GSM of fabrics.
- Accessories are provided to make the testing easier.



GSM Balance

- Precise weighing of samples to measure the GSM.



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



DigiBurst / XT

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



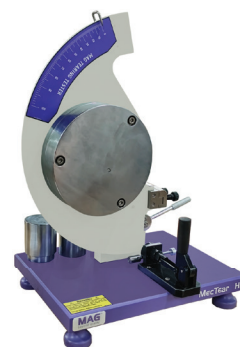
ASTM D1424 | ISO 9290 | BS 3424 | IS 6489 | BS EN ISO 1974 | EN ISO 13937

MecTear / MecTear HD

Measurement of the ballistic tearing strength of fabrics by Elmendorf method.

Capacity : upto 6400 gf. (MecTear).

Capacity : upto 12800 gf. (MecTear HD).





UniStretch 250 / 500 / 1000

- Advanced instrument to test and analyse the tensile properties of yarn, Fabric and Garments.
- Dual column frame to accommodate capacity upto 1000 kg.
- Specially made jaws / grips ensure the test result accuracy.
- Detachable pin mechanism for quick and easy fixing & removal of load cell and jaws.
- Windows based user friendly application software with enhanced report options.



Various Modules :



Tensile Strength (Strip & Grab)

ASTM D5034, ASTM D5035 / ISO 13934 Part 1, 2
IS 1969 Part 1, 2 / IS 7016 Part 2 / IS 2319



Tear Test module

Tongle Single rip
ISO 13937 -Part 2, 4 / ASTM D2261 /
IS 7016 Part 3



Stretch & Recovery

ASTM D4964
ISO 14704 Part 1



Lea Skein Strength

ASTM D1578 / ISO 2062 / IS 1671
ISO 6939



Single Yarn Strength

ASTM D2256 / IS 1670



Peel Bond Strength

ASTM D2724



Seam Slippage

ASTM D434, ASTM D751, ASTM D1683,
ISO 13935 Part1,2 / ISO 13936 Part 1,2
BS 3320 / M&S P12 M1 , M2



Button / Snap Pull strength

ASTM D7142



Zipper Strength

ASTM D2061



FexMet

- Conventional version to find the stretch and recovery of knitted, woven and lycra fabrics.
- Accessories like sample cutting template and mass are provided as part of the instrument.



Button Pull Strength

ASTM D7142



MecSnap

- Measurement of pull strength of button or snap fitted in the garments.
- Accessories like jaws / clamps are provided for holding the different type of button / snap.



Abrasion & Pilling

ASTM D4966 | 4970 | IS 12673 | DIN 53863 | BS EN ISO 12947-1 & 12945-2 IWSTM 112 | 196 | IWTO 40-88

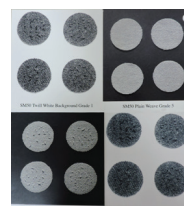
AbraSmart

- Determination of the abrasion and pilling resistance of fabrics by Martindale method.
- With 4 moving heads & Individual selectable working pressure of 3/9/12 kpa.



ICI Pilling

IS 10971 | DIN 53865 | BS EN ISO 12945-1 | IWTO 40-88



AutoPill 2BX / 4BX

- Determination of the pilling resistance of fabric by ICI method
- Accessories are provided to complete the test simple as per standards.
- Instrument available with 2 or 4 boxes.

Optional Supply

- Pilling photographic standards for woven / knitted fabrics.



Assessment Viewer

PillVision

- Used for the subjective visual assessment of Pilling on fabrics against master fabric or photographic standard.
- Suitable for all standards where the assessment of Pilling on fabric is necessary.
- Equipped with dual light source (Artificial Day light and cool White Fluorescent lamps) as per standard requirements.
- Provided with a special recess for the modified Martindale specimen head.





Thickness

ASTM D1777 | D5729 | IS 7702



DigiThick Lite

- Determination of thickness and compressibility of textile structure.
- Digital readout with a resolution of 1 micron.
- Measuring range : 0 to 10 mm.



AnaThick

- Determination of thickness of the fabric by analogue gauge.



Flammability

ASTM D1230 | 6413 BS 3119 | IS 11871



AutoFlame I

- Determination of the burning characteristics of textiles by inclined (45°) flammability test method.
- Stainless steel cabinet fitted with automatic controlling unit.



AutoFlame V

- Determination of the burning characteristics of textiles by vertical (90°) flammability test method.
- Separate manual gas unit is placed away from cabinet for operator safety.



Fabric Yarn Count

ASTM D2260 | 3776 | BS EN | ISO 7211-5

FabyCount

- Estimation of linear density of the yarn from a small piece of fabric (Breesley Balance).
- Instrument fitted in an air-free cabinet with hooks and template.



Crease Angle

AATCC 66 | BS 3086 | ISO 2313 | IS 4681



SimCrease

- Determination of recovery properties of fabrics against creasing.
- Accessories are provided to complete the test.



Spray Rating

AATCC 22 | ISO 4920 | IS 390

AccuSpray

- Determination of surface wetting resistance of fabrics.
- The appearance of specimen after the test is compared with photographic standard.

Optional supply

- Spray rating photographic standard.



Stiffness

ASTM D4032 | 1388 | BS 3356 | IS 6490



SimStiff

- Determination of stiffness properties like bending length and flexural rigidity of fabric.



CrimpTester

ASTM D3883 | IS 3442 | BS EN ISO 7211-3

AccuCrimp

- Determination of actual yarn usage and bulkiness of fabrics.



Course Length

BS 5441

CourseLen

- Determination of accurate length of a complete course of knitted fabric.
- Course length range 50 - 900 cm

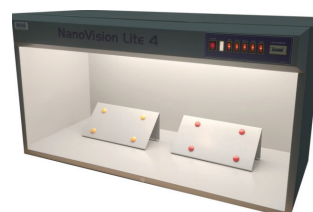


Visual Assessment

ASTM D1729 | ISO 3664 | DIN 6173

NanoVision Lite

- Detachable metal body cabinet with digital hour meter.
- Visual evaluation between specimens under different light source.
- Specimen may be in the form of yarn / fabric / coloured textile materials.
- Available light source : D65, TL84, INC-A, UVB & CWF.
- Available in 2/4 Feet
- Optional supply : U30 and other customized lights.



4 Feet



2 Feet



Colour Fastness - Rubbing

AATCC 8|165 | BS EN 105 X 12



SmartRub XT

- Advanced Crock Meter – Motorized.
- Determination of colour fastness of textiles against rubbing under wet or dry condition.
- Extended testing provision of dyed yarn bundle, carpets and floor coverings.



MecRub XT

- Manual operation with facility to test not only general fabric but also yarn, carpet and floor coverings.
- Provision to reset the digital LCD counter.



Shrinkage

AATCC 135 | 150 | 160 | 179 | BS EN ISO 3759

TrueShrink

- Measurement of shrinkage / stretch of the textile fabrics after laundering and dry-cleaning.
- Accessories like template and marker are provided to make the test quicker.
- Available models : 25 x 25 cm, 35 x 35 cm, 50 x 50 cm and combination of all



Colour Fastness - Washing

AATCC 2|3|25|61|86|132 | ISO 105 C01-06



Wash-o-Fast Series

- Determination of colour fastness of textiles against washing or dry-cleaning.
- Fully stainless steel construction and electronic programmable controlled operation.
- Available with different models as per ISO & AATCC standards and customized capacity.
- Standard capacity : 550ml x 8 to 24 jars in steps of 4 combination of 550ml x 1200ml x each 4 or 8 jars (ISO + AATCC).

PresoHot

- Determination of colour fastness and shrinkage of textiles against hot pressing.
- Fitted with individual electronic programmable controller.
- Available in single / 3 heads.



Colour Fastness - Washing with Soap



WashSoaper 224

- Determine the color fastness against soaping of dyed fabric samples.
- Fully stainless steel construction model to check color fastness to washing with Soap.
- Fitted with electronic temperature indicating controller, digital process timer and inching facility for easy loading / unloading of jars.
- Temperature can be raised up to 95° C with digital temperature controller.
- Digital timer with automatic shutdown & audible warning.



Print Durability Tester

WashDurator

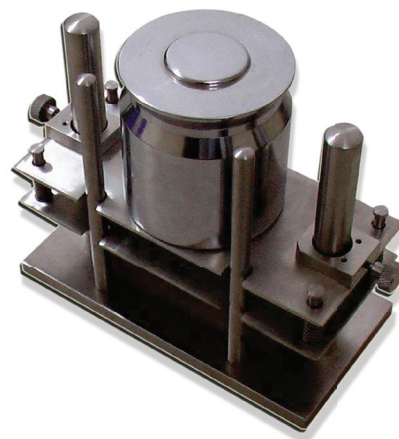
- WashDurator simulates the conditions necessary to meet leading chain stores standard garment and fabric durability tests.
- Compact design in fully stainless construction.
- Meets print durability testing standard of M&S P5.
- Agitator speed is 560 RPM +/- 5%.
- Timer with end of cycle alarm & automatic agitator off.
- Temperature indicator and control with +/- 0.5% accuracy.
- Temperature and time setting in simple up/down button.





PerspiRator

- Determination of colour fastness of textiles due to water and perspiration.
- The Instrument designed to meet both ISO and AATCC standards.



WaterBath



WaterBath

- Used for manual sample dyeing at atmospheric condition.
- Provision to accommodate 12 Teflon coated beakers at a time.
- Fitted with electronic temperature controller.



Drying



DigiOven / DigiOven 2

- Used to dry and removal of moisture from any textile material.
- Stainless steel Inner body construction and fitted with Electronic temperature controller.
- Forced Air Exhaust in DigiOven 2 suitable for processed / wet fabric.





LaboDyer R16/ R24

- Used to make quick sample dyeing under laboratory condition.
- Infrared radiation enables very efficient and quick dyeing to minimize the processing time.
- Fully stainless steel body and fitted with micro processor controller.
- Suitable for dyeing the yarn and fabric samples.
- Provision from 100ml to 1200ml capacity and number of beakers varying from 12 to 24.



Padding Mangle - Vertical / Horizontal

- Used to simulate the dyeing mangle functions.
- Suitable for all dyeing, printing, finishing and padding processes.
- Equipped with pneumatic loading system which ensures precise squeezing pressure.
- Available with vertical & horizontal models.



Horizontal



Vertical



ASTM D737 | IS 11056 | DIN 53887

Air Permeability Tester-H

- To test air permeability of various type of fabric.
- Easy sample mounting round shaped grips to avoid air leakage.
- High capacity blower suction to draw air through specimen for accurate results.
- Vacuum pressure is measured by digital manometer.



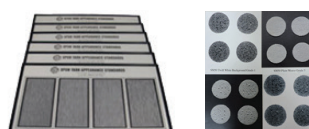
PH Meter / TDS



Pick Glass



ASTM Boards / Pilling Photograph



ISO / AATCC Gray Scales



Instruments available for Fiber and Yarn

S.No	Instruments	Generic Name
1	HVT Genius 2+	Fully Automatic High Volume Fibre Tester with Automatic Trash Separator
2	HVT Expert 1401	Automatic High Volume Fibre Tester with Automatic Trash Separator
3	HVT Expert 1201	High Volume Fibre Tester (Fiber Length, Strength, Mic, Colour & Moisture)
4	HVT Smile 100	Compact High Volume Fibre Tester (Fiber Length, Strength, Mic)
5	DigiColour	Digital Fiber Colour & Grade Tester
6	AccuTrash 2	Automatic Trash Separator
7	UH Expert 2012	The Complete Evenness Tester
8	TensoMaster	Fully Automatic Single yarn strength tester
9	TensoLite	Semi-Automatic Single Yarn Strength Tester
10	DigiLen XT	Computerised Digital Fibre Length Tester
11	FibroLen	Cotton Fibre Tester- Baer Sorter
12	FibroStelo	Fibre Strength- Stelometer
13	DigiMic XT	Digital Fibre Fineness Tester
14	FibroMic XT	Fibre Fineness Tester
15	EleTrash 2	Electronic Trash Separator
16	DigiMoist XT	Digital Moisture Meter
17	FibroNep	Nep Counting Template
18	SmartBlock 2	Advanced & Motorised Wrap Block
19	FibrBlock 504	Manual Wrap Block- 4" width
20	FibroBlock 518/514	Manual Wrap Block- Bed Type 16" & 12" (Yard / Meter)
21	MotoHank L	Wrapping on Wheels with Laptop loaded with Software
22	MotoHank T	Wrapping on Wheels with Tab loaded with Software
23	MotoHank	Wrapping on Wheels
24	EleWrap 6/6M	Electronic Wrap Reel (Yard / Meter)
25	CompuCount	Computerised Yarn Count
26	ComboData DXT	Computerised Lea Count Strength Tester- Floor Model
27	ComboData XT	Computerised Lea Count Strength Tester- Table Top
28	MecStretch XT	Lea Stength Tester- Wall mount
29	CompuTwist	Computerised Twist Tester
30	EleTwist	Electronic Twist Tester
31	AutoWinder	Yarn Appearance Board Winder (12" & 22")
32	SpliceRay / Lite	Splice Strength Tester
33	AbraTest	Yarn Abrasion Tester
34	DigiCone C / XT	Cone/Cheese Collapsing Strength Tester / with Software
35	DigiBurst C / XT	Digital Bursting Strength Tester / with Software
36	DigiOven	Hot Air Oven
37	Package Hardness Tester	Package Harness Tester

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 35+ 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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