



Textile Testing Services



Instrument Calibration



Textile Testing Instruments



Testing Consumables



Instruments Services



Lab Setup & Lab Design

# X-Power Equipments

## Welcome to Textile Testing

X-Power is a leading textile testing instrument manufacturers which provides complete textile testing solutions and it has a well equipped modern calibration centers to ensure the accuracy and confidence in the measurements.

Service centers provide world class after-sales service and calibrating the instruments as per international standards and etc.

Spectro is dealing with world-class testing instruments as per the international standards like IS, ISO, AATCC, ASTM, M&S and BS.

Our environmentally controlled laboratory, impeccable service, quick lead-times, and competitive pricing all combine to provide you with exceptional value for your textile testing needs.

We want to ensure an extraordinary experience for our clients during each occasion they engage us for their textile testing needs.

In addition to our textile testing capabilities, we offer Calibration, Instruments & Consumables, Instrument services and Lab setup services.

## Our mission

Our mission is to deliver superlative TEXTILE TESTING & CALIBRATION services to the garment industries and textile testing laboratories at a reasonable price and backed by the finest customer services. As our satisfied customers already know, we meet or exceed all expectations on a daily basis.

Proper training, use of procedures, and dedication to excellence are just the beginnings and the foundation of what we strive to provide.

# Instrument Calibration

Regular calibration of the textile testing and quality control instruments in textile mills is an important requirement to detect and correct any variation of its performance.

In principle, all scientific instruments must be calibrated not only at the time of manufacture but also at regular intervals during use in order to ensure the accuracy and confidence in the measurements.

In today's quality conscious and competitive environment, calibration plays a vital role in satisfying international quality standards like "ISO 9001, ISO 14001 and SA 8000.

In this context, X-Power has set up a calibration Laboratory with qualified engineers and this service is an operation right from 1995 onwards. Presently, the calibration service is extended to almost all the textile testing instruments pertaining to fibre, yarn and chemical processing.

A detailed list of instruments that are calibrated by X-Power is enclosed herewith for your reference.

## Yarn Testing Instrument

- Wrap Block (Manual / Motorised / Electronic)
- Wrap Reel (Manual / Motorised / Electronic)
- Yarn Appearance Winter (Manual / Motorised)
- Evenness Tester
- Twist Tester (Manual / Motorised / Electronic)
- Yarn Tension Meter (Analog / Digital)
- Single Yarn Strength Tester
- Quadrant Balance
- Beesley Balance
- Course Length Tester
- Lea Strength Tester (Analog / Digital)
- CSP System

## Fabric Testing Instruments

- Busting Strength Tester
- Tensile Strength Tester
- Colour Matching Cabinet
- Counting Glass (Pick Glass)
- Crock meter ( Manual / Motorised)
- Crease Recovery Tester
- Crimp Tester
- Direct Count Balance
- Drape Meter
- Fabric Stiffness Tester
- Fabric Abrasion Tester
- GSM Cutter

GSM Balance/Calculator

Hot Air Oven

Incubator

Laundrometer (Wash Fastness Tester)

Measuring Scale (up to 1000mm)

Measuring Tape

Perspirometer

Pilling Tester

Shrinkage Template with Scale

Tumble Dryer

Washing Machine

### Other Instruments & Accessories

Analytical Weight Box (up to 200mg)

Dial Gauge

Electronic Weighing Balance

Chemical Weighing Balance

Shore – A Hardness Tester

Tachometer

Vernier Caliper

Thermometer

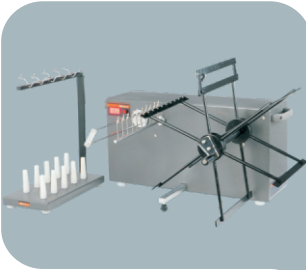
Water Bath's

Lab Shaker

pH meter

Weights (up to 10 kg).

# Yarn Testing Instrument



## Automatic Wrap Reel

This instrument is used to prepare leas (120 yds), to check the yarn count.

10 cops capacity with stand.

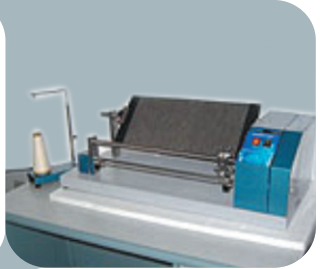
Full / Half / Quarter Lea option.

Easy to use.

## Yarn Appearance Winder

Black Board Size: 6" x 9.5 "

Designed for winding the cotton yarn spaced on black boards for visual inspection and grading the yarns as per IS & ASTM Standards.



## ASTM Cotton Appearance Standards

Grades A, B, C, D, (Mounted) specify No. 1-12, 12-24, 24-36, 36-50, 50-75, or 75-135 (English cotton count) Price each.



## Electronic Twist Tester

This Hi-tech micro processor Electronic Twist Tester determines TP/TPM in single and folded yarns. Gauge length selection from 0.500 mm / 0-20 inch Automatic stop motion on completion of test for single yarns.



## Lea Strength Tester

This machine works on loadcell with micro controller based strength analyzing system and constant rate of traverse [CRT] principle.



# Colour Fastness Testing Instrument

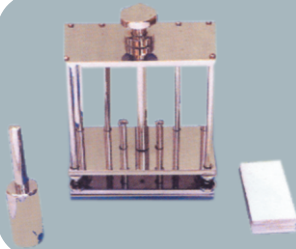


## Laundero-meter

- ✍ To determine the color fastness against washing.
- ✍ No. of jars : 8
- ✍ Capacity of Jars: For ISO 550ml / For AATCC 1200ml
- ✍ RPM : 40 +/-2
- ✍ Temperature: Digital Temp. Controller with LED display.

## Crock Meter

- ✍ Dia of the finger: Ø 16mm
- ✍ Force on the finger: 9 Newton
- ✍ Size of Crocking Cloth: 5x5cm
- ✍ Abrasion Distance: 104mm +/- 3mm
- ✍ Dimension: 66 x 20 x 25 (H)cm



## Perspiro Meter

- ✍ Frame Construction: SS-316 grade
- ✍ Load on the test specimen: 5 kg for ISO & 4.5kg for AATCC.
- ✍ Size of acrylic plates: 115x60x1.5 mm

## Light Fastness Tester

For New design light fastness tester to determine the color fastness against Light.  
500w MBTL lamp - 1no.  
3 Type a water-cooled RECTANGULAR CELL.  
Digital Timer & Hour meter.



## Shrinkage Scale

For accurate marketing fabrics for shrinkage tests. The scales can directly give the % change in dimensions. No need to calculate manually. All made out of imported acrylic sheets.

# Fabric Testing Instrument

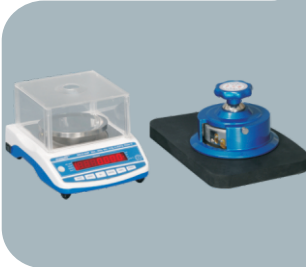


## Colour Matching Cabinet-New

For visual assessment of colours under international standard light illuminates can be chosen from artificial day light (D65 / D75 / D50) point of shade lights (TL84 / U30 / CWF) Domestic lights, (Filament / Incards) Ultraviolet light.

## Colour Matching Cabinet-std

For visual assessment of colours under international standard light illuminates can be chosen from artificial day light (D65 / D75 / D50) point of shade lights (TL84 / U30 / CWF) Domestic lights, (Filament / Inca) Ultraviolet light.



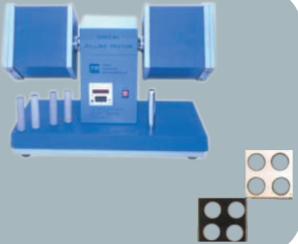
## GSM Round Cutter

Specimen dia: 112.8mm  
 Specimen area: 100 cm<sup>2</sup>  
 No. of Blades: 4 nos with safety lock  
 GSM = Specimen weight in grams x 100

## Pilling Tester

To determine the resistance to pilling & change of appearance of fabrics for both woven & knitted materials.

The instrument is available in two models: 2 Box / 4 Box.

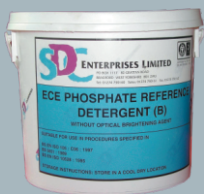


## Tensile Tester

This machine is working on the dead weight principle with constant rate of traverse of 300 ml/min. This unit records tensile thread strength and elongation at breaking point.



# Consumables

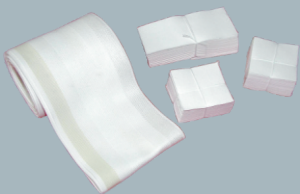


## ECE Reference Detergent Powders

Powders for using in Wash fastness tests and shrinkage tests. ECE reference detergent / AATCC / IEC etc., With or without optical brightness are available.

## Standard Fabric for Testing (MFF)

Multifibre adjacent fabric for use with Wash fastness tester. Standard Cotton Adjacent Fabric. Crocking cloth etc., Mfd by test Fabrics, USA.



## LFT Blue Wool Standards

LFT standards Blue Wool Fabric (Pack of 8 Graded 1-8) to meet ISO / SDC / BS standards. Dimensions each piece 240mm x 150mm.

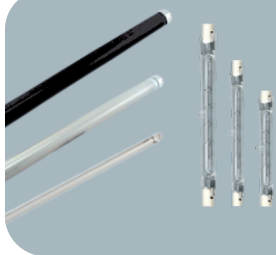
BS 1006

ISO 105

AATCC 16

## GSM Cutting Blades & Pads

Manual sample cutting spare including cutting Pad 400mm x 200mm, Imported cutting blade from Lutz Germany.



## Imported Lamps for Colour Matching

For the visual assessment of colour under different controlled, standard light conditions. D-65, TL-84, CWF, U-30, TL-83, UVB, Horizon light, Incandescent, Tungsten Halogen special day light.

# Services

## Instrument Services

We are committed to provide quality products and after-sales & services to all our Instrument customers. Total application, Technical Support services throughout India.

We offer,

- Preventive Maintenance
- Annual Maintenance Contract (AMC)
- Emergency Repair

## Calibration & Certification

To ensure the best result & Performance, every X-Power products is subjected to complete testing and calibration before deliver to the customer site. Calibration Laboratory provides specialist service on a wide range of textile testing instruments, both in brand-new & used instruments.

## Installation & Demonstration

When you purchase an instrument form X-Power, a support engineer will visit your lab to examine before install the instrument and guide you properly as per instrument specification. After installation, we will offer you demo & operation instruction to your operator.

## Operator Training

Qualified textile technologists are available to deliver advanced training.

## Standardised Spare Parts

When an instrument fails, X-Power will act quickly to solve the problem by providing standardized spare parts. Spare parts normally remain available for up to 10 years after the date of supply of an instrument. Stocks are maintained at all our service & sales centers up to 10 years for the particular models and designs.

## Customer Service

Textile testing services and calibration support are available by telephone, fax or email, during normal working hours (10am to 6pm).

This excellent service is offered, without cost, during the warranty period and during current service contracts & calibration contracts.

Speedy and helpful assistance is provided by dedicated technical support engineers and textile applications experts.

For textile testing related enquiry contact:  
[info@xpower.in](mailto:info@xpower.in)

For calibration related enquiry contact:  
[calibration@xpower.in](mailto:calibration@xpower.in)

For instruments & consumables related enquiry contact  
[sales@xpower.in](mailto:sales@xpower.in)

For instruments services (AMC) related enquiry contact:  
[service@xpower.in](mailto:service@xpower.in)

## Service Center

Tirupur, Coimbatore, Karur, Erode & Bangalore.

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