

UI-TX76 Yarn Abrasion Tester

1. Application & Test Capabilities

Yarn Abrasion Tester is engineered to precisely evaluate the abrasion resistance of single yarns, plied yarns, and synthetic fibers, making it an essential testing instrument for textile quality control.



2. Key Features & Performance

High-Efficiency 20-Position Testing Designed with 20 independent testing stations, the instrument allows simultaneous testing of multiple specimens, greatly improving laboratory testing efficiency and data accuracy.

Intelligent Control & Data Processing Powered by an advanced ARM microcomputer system paired with a user-friendly touch-screen interface, the tester automatically collects and processes test data with exceptional precision.

Comprehensive Statistical Analysis The system automatically calculates and displays comprehensive metrics for each batch, including average abrasion cycles, coefficient of variation (CV%), maximum and minimum values, as well as individual test results for all 20 stations.

Precision Constant-Rate Drive Features frequency conversion speed regulation to maintain a stable, uniform abrasion speed at approximately 60 cycles per minute, ensuring consistent and repeatable testing conditions.

3. Technical Specifications

- Test Positions: 20 positions
- Abrasion Motion: Constant-rate motion
- Testing Speed: Approx. 60 cycles/min
- Data Outputs: Max, Min, Average cycles, Coefficient of Variation, and Individual values
- Loading Weights: 5g, 10g, 15g, 20g, 25g, 30g, 35g (20 pcs each) A
- Abrasive Material: Standard Sandpaper (No. 400, No. 600)
- Power Supply: AC220V, 50Hz, 60W
- Dimensions: 440 x 300 x 200 mm
- Net Weight: Approx. 30 kg

2. Standard:

ISO 8124-1 section 5.15, GB6675-2 section 5.15, EN-71-1 section 8.24, ASTM F963 section 8.14

3. Technical Specifications

Parameter	Technical Specification
Display	LED Display, Time, Speed, Kinetic Energy Value, Average, Max Value
Printer	Thermal Printer
Time accuracy	0.0000001s
Energy accuracy	0.000001J
Internal channel	10cmx10cm
Internal sensor distance	200 mm(Standards requirement: ≤300mm)
Internal channel projectile diameter	2mm~80mm
External sensor distance	25~380mm(Adjustable)
Weight (approx.)	10Kg