



## Yarn Hairiness Tester Model: ADL-172C

ADL-172C Yarn Hairiness Tester is a precision textile electronic instrument. It is used to measure and analyze the yarn hairiness index and diameter index. It can automatically test and statistically analyze the length, quantity and distribution of the hairiness in the yarn, the size and unevenness of the diameter, and can simulate an electronic blackboard. This instrument is suitable for testing short-fiber yarns and sizing yarns



### Main Features

- Image vision technology is applied, imported high-resolution CCD digital camera is selected, and data repeatability is good.
- Projection counting method is adopted, and external positioning is adopted, which meets the national textile industry standards.
- While measuring the hairiness index, the yarn diameter and diameter variation coefficient are detected.
- It has an automatic adjustment system for yarn pre-tensioning.
- Multi-speed test, the maximum speed is 100m/min, and the test efficiency is high.
- Specially designed rubber roller anti-entanglement device.
- It has an electronic blackboard function.

### Test Standard

ASTM D 5647, Q/JG6.72-2002

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### Technical Parameters

- Applicable yarn range: 4tex~300tex
- Feather length range: The hairiness index of nine hairiness lengths from 1 to 9mm and the hairiness index of two custom lengths can be measured at one time
- Diameter test range: 0.007mm~3.000mm
- Diameter test accuracy:  $\pm 0.007$ mm
- Test speed: 30m/min, 60m/min, 100m/min optional
- Yarn segment length: 5m~1000m can be set arbitrarily in m units
- Continuous test times: Each group is 1 to 30 tubes, and each tube is 1 to 30 times can be set arbitrarily
- Output indicators and graphics: hairiness average value, hairiness index, hairiness frequency ratio, CVH, range, maximum value, minimum value, diameter average value, CVD, range, maximum value, minimum value; real-time hairiness graph, histogram, spline graph
- Power supply: AC220V $\pm 10\%$ , 50Hz/60Hz, power consumption  $\leq 280$ VA

*\*Technical Data Subject to change without notice.*

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## Our Skill

At AdLab, we combine expertise in precision engineering with advanced laboratory technology to create innovative and reliable testing instruments. Our team of skilled professionals continuously works on improving product designs, integrating the latest advancements in technology, and ensuring compliance with international quality standards. With a strong focus on research and development, we provide customized solutions that cater to the unique needs of our customers worldwide.

## Our Products

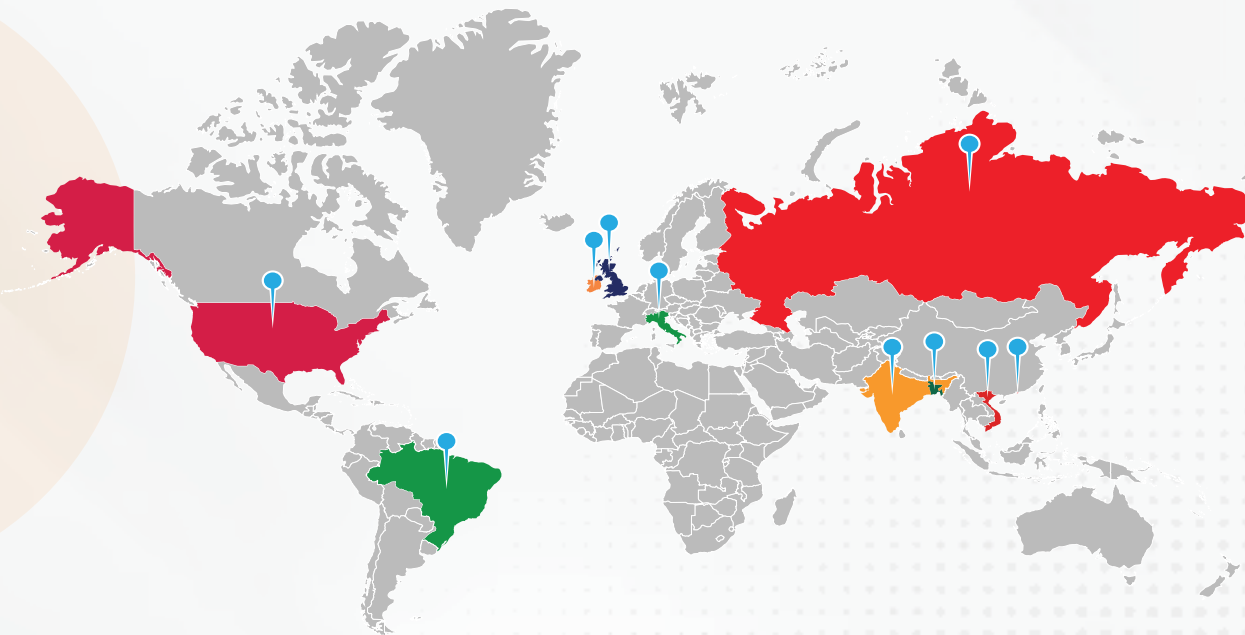
AdLab offers a wide range of high-quality laboratory and textile testing instruments, including Yarn & Fiber Testing Instruments, Laboratory Fume Hood Chambers, Ovens & Incubators, Water Baths, Textile Testing Instruments, Dyeing & Finishing Machines, Ceramic Testing, Tensile Testing, Washers & Dryers, Needle Detectors, and In-House Testing Equipment. Designed for precision and efficiency, our products ensure accurate testing and reliable performance across various industries.

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- ✓ Installation & Training – We offer professional installation services and hands-on training to help users operate our equipment efficiently.
- ✓ Calibration & Maintenance – Regular calibration and maintenance services ensure that your laboratory instruments remain accurate and in optimal working condition.
- ✓ Customized Solutions – We provide tailored solutions to meet specific industry requirements, helping our clients achieve maximum efficiency in their operations.

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