AdLab
Total Testing Solutions

Yarn Evenness Tester
Model: ADL-300

The ADL-300 Evenness Tester is a universal high-performance textile laboratory instrument. It is used to test the unevenness and hairiness changes of yarns. It is suitable for pure cotton, wool, silk, linen, and chemical fiber short fibers. Spun and blended yarns are of great significance to improving and ensuring yarn quality.

Main Features

- Data calculation uses computer processing, and the monitoring software is based on the Windows platform, with a full Chinese graphical interface, good system integration, and high stability.
- It can test CV% value, U% value, H value, SH value and twelve levels of defects in real time.
- It has various graphical indicators such as variation-length curves, unevenness curves, spectral diagrams, linear density-frequency distribution diagrams of evenness and hairiness, etc., which can easily evaluate yarn quality.
- It has a fine continuous wave spectrum and 340 channels, which is helpful for users to accurately analyze the fault location of textile process
- It has the deviation rate (DR%) value and scatter plot, DR curve, and relative deviation coefficient ADR (Lc), which reflects the random and uneven structural characteristics of the yarn line and is used to estimate the appearance quality of the cloth surface after yarn weaving. New analysis and evaluation methods are provided.
- The statistical analysis system can provide annual reports, quarterly reports, monthly reports, daily reports, etc. for specific varieties of test data, and provide statistical distribution charts of conventional test indicators, which is helpful for observing medium- and long-term changes in test indicators.

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- The expert system can assist users in analyzing textile process failures and evaluating spinning level.
- Uneven curves can be stored for users to conduct more detailed analysis.
- Electromagnetic tensioner, which applies tension through software settings.
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- The transmission system adopts servo drive technology, which has low noise and high reliability.
- The top roller automatically expands and contracts, which slows down the wear of the top roller and makes the yarn more stable.
- Automatic zero adjustment function improves testing efficiency and makes operation easier.

Test Standard

ASTM D 5647, Q/JG6.72-2002

Main Technical Specifications and Parameters

Yarn count test range	Dry 4tex~80ktex
Test speed	4m/min, 8m/min, 25m/min, 50m/min, 100m/min, 200m/min, 400m/min
Test time	Set arbitrarily between 10s and 20min in units of 10 seconds.
Coefficient of variation	CV%) or unevenness (U%) and CV(1) variation length curve
	CV% or U% value test range 0.20%~100.00
	Variation-length curve cutting length 1cm~983m
Deviation rate (DR%) value DR curve Relative offset coefficient ADR (Lc)	DR value test range 0.00%~100.00
	Reference length and threshold 20cm,+35%; 20cm,-30%; 1m,+5%;
	1m,-5%; 1m,+15%; 1m,-10%
	DR curve: given reference lengths 1cm, 10cm, 20cm, 50cm, 1m, the threshold is from 0 to 50%.
	Positive and negative deviation rate (DR) curves of 0~50%.
	Relative offset coefficient ADR (LC): cutting length Lc 1cm, 20cm, 1m
Defect value	Can output defect values with twelve levels of sensitivity at the same time
	Details -30%, -40%, -50%, -60
	Thick place +35%, +50%, 70%, +100
	Neps +140%, +200%, +280%, +400
Spectrogram	The measurable wavelength range of the ordinary spectrum chart is 1cm~2937m, and the number of spectrum channels is 85.
	The fine spectrogram can measure the wavelength range from 1cm to 2937m and the number of spectrum channels is 340.

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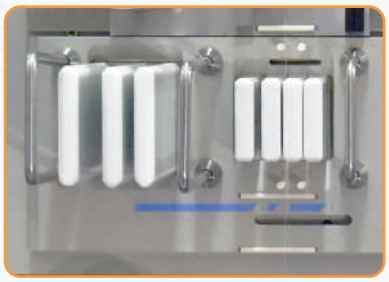
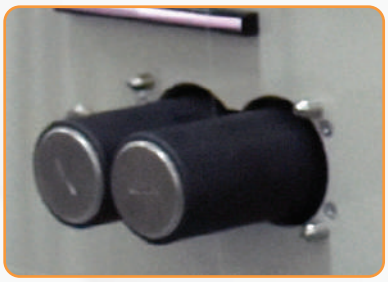
Line Density Frequency Distribution Plot	It can provide two linear density frequency distribution diagrams ranging from -100% to +100% and exceeding +100%.
Statistics function	It has two statistical functions: one is the statistics of test data, such as mean mean, inter-tube variation system
	CVb, 95% confidence interval Q95, maximum value, minimum value, etc.; the second is the spectrum of the batch test
	Figures and variation-length curves are statistically analyzed graphically.
Statistical distribution chart	Statistical distribution of commonly used test indicators (CV%, details -50%, thick spots +50%, neps +200%)
	Figure, the statistical time can be set arbitrarily in "day".
Hairiness test index	Yarn count range: 4tex~160tex
	Test speed: 200m/min, 400m/min
	Output the hairiness H value and standard deviation SH.
	Output hairiness spectrum, hairiness variation-length curve, hairiness distribution diagram, hairiness uneven curve, etc.

Hairiness unit

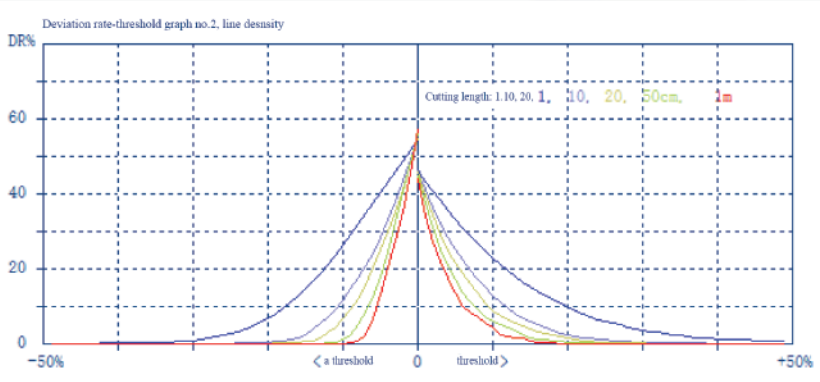

Test plate


Traction Roller

System Composition

The CT300 evenness test analyzer consists of a detection extension, a main processor (including a monitor, keyboard, and mouse), a printer, and a creel.

Hairiness unit is optional.



Technical Data Subject to change without notice.

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