

UH Expert 2012

Generic Name : Yarn Evenness Tester with Hairiness Index

Product # : MAG – Y1181

Test Category : Yarn, Roving & Sliver

Industry Usage : Spinning and Weaving

TEXTILE
TESTING
SOLUTIONS

Features :

- Determines evenness of yarn, roving and sliver of Cotton, Wool, Flax and Synthetic fibre & blends.
- Latest electronics and superior mechanical solutions.
- Special software and instrument for really quick and simple usability.
- Graphical and numerical results perfectly matching world standard.
- Selection of slot as per the count is automated.
- Automatic ON/OFF suction for the yarn testing.
- Rollers front/back movement during testing, to avoid roller damage.
- Easy and quick self-testing system.
- External sensor integration for higher count sliver.
- User friendly Operations.
- Single window for set and run the test.
- Multi diagrams window for direct test comparison.
- Measuring units changeable at any test.
- All visualizing data in real time, no need to wait the end test.
- Data can be retrieved with preinstalled multi filters.
- Easy to search the stored data.
- Customized reports at any time with all data stored in database.



TECHNICAL DATA

Measuring principle	: Evenness : Capacitance ; Hairiness : Optical
Measuring range	: From approx. 1 tex to 12 Ktex for fibre assemblies containing stable fibres (Limitations according to the type of fibre possible).
Testing speed	: 10, 20, 25, 50, 100, 200 and 400 m/min. or yd/min. Slow start for delicate Materials.
Testing time	: 1, 2.5, 5.0, 7.5, 10.0, 20.0 minutes.
Output	: Numerical results output on the monitor and via printer.
Unevenness (U %)	: Numerical determination of the unevenness in the range from U=0.15... 40%
Co-efficient of variation(CV%)	: Numerical determination of the CVm in the range from U=0.5... 50%
Co-efficient of variation of cut Length (CV(L)%)	: Numerical determination of the CVm for the cut lengths of 0.5, 1, 3, 10, 50, 100 mtr/yd.
Imperfections	: Counting of thin places, thick places and neps with selectable sensitivity limits (for staple fibre yarns) Thin places : -30%, -40%, -50%, -60% Thick places : +35%, +50%, +70%, +100% Neps : +140%, +200%, +280%, +400%. The results of different sensitivity levels can be printed out Simultaneously.
Hairiness Module	: H and sh
Relative count	: Percentage count variations of the material between samples in a series of Measurements with reference to the test length. Conversion of the mean Value to 100%.
Variance length curves	: Cut length from 1 cm to 400 m

Spectrogram	: Wavelength ranges from 1 cm to 1240 m with staple spun yarns.
Mean value	: Cut length : Normal, 0.1, 0.3, 1, 3, 10, 30,100, 300, 1000 Mtr/yd
Statistical values	: Determination of the mean value, the standard deviation, Co-efficient variation "CV _b " and 95% confidence limit of all Numerical values. Automatic conversion of the imperfections with reference To 1000 meters of yarn.
Diagram	: Sensitivity selectable in the ranges ±5%, ±6.25%, ±10%, ±12.5%, ±20%, ±25%, ±50%, ±100%, -100+200%, -100+400%, -100+500%
Three dimensional representation	: Spectrograms : Up to 12 spectrograms simultaneously possible. Variance length curves : Up to 12 variance length curves simultaneously Possible.
Frequency Distribution diagrams	: Representation of the mass variations within single tests in the form of a Frequency distribution diagram with a processing capability of about 100000 Events per minute measuring time.
Variation trend analysis (Data retrieve)	: Software for analysis of short, medium and long term quality variation of all Parameters and corresponding numerical and graphical reports with trend Representation.
PC-Client (Data retrieve)	: LAN/remote access software for database access and data retrieve Including all functions of "Variation trend analysis".
Data storage	: At least 5 years data storage on open SQL database.
Software language	: Multilanguage software including minimum 20 different languages.
Software units	: Possible to change measuring units like Mtr/yd, NeC/Ktex/..., during Programming of each new test without powering off and on the machine.
Software graphs	: Normal test graph with changeable amplification. Possible to make multi analysis on multiple graphs, even during testing also.

SCOPE OF SUPPLY

- 1) Main Unit** : – 1 No.
2) Accessories : Monitor – 1 No., Keyboard with mouse – 1 No., Laser Printer – 1 No., Printer tray – 1 No.,
Yarn stands - 1 Set, Set of connecting cable – 1 No. & Set of System Software CDs – 1 No.
3) Documents : User's guide, Warranty certificate, Test certificate & Calibration certificate.

Optional Supply : Online Sine-wave UPS

PRE-REQUISITES FOR INSTALLATION

Properly earthed and Stabilized Single phase 220vAC @ 50Hz supply equipped with 1 KVA online UPS ported at 5 Amps supply socket, Test samples and Suitable qualified operator.

OTHER AVAILABLE MODELS

U Expert 2012 (yarn Evenness Tester)