

**Automatic Pick Counter
FX 3250/FX 3255 PICK COUNTER**



SCOPE

The TEXTEST FX 3250 / FX 3255 Automatic PICK COUNTER is used for fast, convenient and accurate determination of the thread density of woven fabrics and wire meshes as well as the loop density of knitted fabrics.

Two models of the PICK COUNTER are available:

- Model FX 3250 with a measuring range of 8 through 300/cm (20 through 762/in)
- Model FX 3255 with a measuring range of 8 through 74/cm (20 through 188/in).

FUNCTION

For testing, the face of the instrument is placed onto the test specimen. After manually entering the search range in which the test result is expected to fall, the start button is pressed. By means of a high quality lens system a narrow line of the test specimen is projected onto a linear CCD array. The signal from the CCD array is processed by a micro processor, and after less than a second the average thread density of the test specimen is digitally displayed.

A special illumination system eliminates the interfering effects of colors and patterns. Therefore, even colored and patterned test specimens deliver a perfect test result.

EVALUATION OF THE TEST RESULTS

The simplest method for evaluation of the test results is to read the test results from the digital display, to write them down and to evaluate them manually. For the model FX 3255 this is the only method.

In order to eliminate all reading, writing and calculating tasks and related errors, the model FX 3250 can be connected to the Strip Printer L 5130 MINIPRINT, which documents the test results, including statistical analysis, on a 57 mm (2.25") wide strip of paper (see adjacent picture).

Alternatively, the model FX 3250 can be connected to a PC or Laptop computer with the Evaluation Program L 5110 LABODATA III. The PC prints a comprehensive test report, including statistical analysis of the test results (see separate picture). In addition, it stores the test results on the hard disk and performs long-term evaluations based on various selection criteria.

Up to five different TEXTEST instruments can be connected to the PC at the same time. The test results from these instruments can be processed *simultaneously* and documented together on the same test report. Thus, the Evaluation Program L 5110 LABODATA III turns the PC into a complete data processing system for the testing laboratory.

The instrument is equally suitable for measurements in the laboratory and mobile applications in the production environment. Since the instrument also works at moving test specimens, measurements can be taken directly at the running production machine or loom.

Its handy size and its ability to determine even extremely high thread densities, make the instrument a state-of-the-art alternative to the traditional pick glass and interference template.

Because of its small size and light weight design the instrument is perfectly suited for mobile use.

For stationary operation in the laboratory the instrument may be mounted to the optional FX 3250-MT Stand.

The model FX 3250 is equipped with a RS 232 data port.

The instrument can be calibrated and is supplied with an ISO conform calibration certificate. Also supplied is a calibration card for instantaneous verification of the proper function and calibration as well as for re-calibration of the instrument.

THREAD DENSITY	
ID:	
Length:	29 mm
Test mode:	STD
Range:	65-86 /cm
Instrument:	FX 3250
S/n:	923
Date:	25. 6. 2006
Time:	13: 10
Operator:	
1:	72.2 /cm
2:	69.7 /cm
3:	70.0 /cm
4:	69.7 /cm
5:	71.2 /cm
6:	71.4 /cm

Avg:	70.7 /cm
Min:	69.7 /cm
Max:	72.2 /cm
CV :	1.5 %

Test report, printed with the
Strip Printer L 5130 MINIPRINT
(original size).

TECHNICAL SPECIFICATIONS

- Measuring range:
Model FX 3250: 8 through 300 threads/cm (20 through 762 threads/in), divided into 25 sub-ranges, each approx. 1:1.3 wide
Model FX 3255: 8 through 74 threads/cm (20 through 188 threads/in), divided into 15 sub-ranges, each approx. 1:1.3 wide 1/cm and 1/in
 - Units of measure: better than $\pm 1\%$ of the displayed value
 - Measuring accuracy: "STD" (standard test mode)
 - Test modes: "WAL" (for wales in knit wear)
"DBL" (for double-faced fabrics, double pick fabrics and 2/2 twills)
"R=5" (for fabrics with a repeat of 5)
 - Test length: 29 mm (1.1 in)
 - Computing time: less than 1 second
 - Data port (model FX 3250 only): RS 232 C, asynchronous, bi-directional
 - Power requirements: 2 batteries 1.5 V, size AA
 - Battery life time: approximately 2,000 tests
 - Dimensions (w x d x h): 66 x 32 x 128 mm (2.6 x 1.25 x 5 in)
 - Weight: 200 g.
- The instrument is supplied with as an ISO conform calibration certificate. Also supplied is a calibration card for instantaneous verification of the proper function and calibration as well as for re-calibration of the instrument.

ACCESSORIES

For the FX 3250 / FX 3255 Automatic PICK COUNTER the following accessories are available:

FX 3250-MT Stand

For stationary operation of the PICK COUNTER in the laboratory.

Dimensions: width: 17 cm (6.7"), depth: 61 cm (24"), height: 23 cm (9").

FX 3250-ARH Alignment aid

For measurement of extremely fine test specimens with a yarn density over approximately 100/cm (250/in).

FX 3250-EU Power adapter EU

For a line voltage of 90 through 264 V, 50 through 60 Hz, with EU connector.

FX 3250-GB Power adapter GB

For a line voltage of 90 through 264 V, 50 through 60 Hz, with UK connector.

FX 3250-US Power adapter US

For a line voltage of 90 through 264 V, 50 through 60 Hz, with US connector.

L 5130 Strip Printer MINIPRINT

For documentation and statistical analysis of the test results from various TEXTEST instruments on a 57 mm (2.25") wide paper strip.

L 5110 Evaluation Program for PC LABODATA III

Program for documentation, statistical analysis, storage, and long-term evaluation of the test results from various TEXTEST instruments by means of a PC.

FX 3250-KAB Data cable

For transmission of the test results from the FX 3250 PICK COUNTER into a PC or L 5130 Strip Printer.