Textechno
textile testing technology

STATIGRAPH L

Semi-Automatic Tensile Tester

Semi-Automatic Tensile Testers

In many industries, tensile tests on yarn- or fabric samples are an important component of quality control, both for manufacturers and downstream processors. From the force-elongation behaviour of the respective material, it is possible to draw conclusions regarding the quality of- and any possible disturbances in the manufacturing process. Moreover, the force-elongation behaviour enables predictions to be made concerning the suitability of the material for downstream processing or its use in the finished product. To-date, the different tensile testers marketed by numerous manufacturers not only comprise the universal tensile testers suitable for various applications but also very specialized equipment and test methods that are tailor-made for restricted application areas.

In general, such modern tensile testers function according to the principle of constant deformation speed (CRE), where the test is carried out by subjecting the sample to an extension that increases proportionally with time and during which the force is electronically measured. The sample holders, in which the two ends of the test sample are held, have an important function. Usually they consist of clamps, each comprising two jaws, whose shape and dimensions must be adapted to the respective sample shape.

STATIGRAPH L

Within the range of semi- and fully automatic TEXTECHNO tensile testers, the STATIGRAPH L offers a particularly economical solution for testing tasks in the textile- and man-made fibre industry as well as numerous other application fields. Outstanding characteristics of the equipment are **high measuring accuracy, diversity of application** through exchangeable clamps for the manual clamping of the various sample bodies, programs for numerous testing methods and a force measuring range up to 2500 N (5000 N on request).

Among others, **tensile tests** carried out **on yarns**, as well as **woven and knitted fabrics**, are important applications for the STATIGRAPH L. Using appropriate clamps, tensile testing of **single fibres** is also possible. The latter test, however, has higher operating demands compared to the specialized single fibre tensile test equipment like, for example, the TEXTECHNO FAVIGRAPH and is, therefore, only recommended for occasional use for this application.

STATIGRAPH L

The STATIGRAPH L is designed as a desktop device and is equipped with a draw-off clamp driven by a single spindle. The input of the test parameters and output of the test results are carried via the TEXTECHNO **TESTCONTROL PC** system.

Technical data

Gauge length:
Adjustable in 1 mm steps, min. 10 mm, max. travel of the draw-off clamp approx. 850 mm (dependent on the clamp used).

Speed of draw-off clamp:
0.1 – 800 mm/min.

Measuring systems:
Force measuring device with 2 load cells 100 N and 2500 N (5000 N on request);
Elongation measuring device with incremental transducer, resolution 2 µm.

Mains supply:
220 V, 50 (60) Hz, current requirement approx. 1.8 A.

Lacquer finish:
RAL 9006/5002.

Dimensions, weight:
Height 1250, width 320, depth 414 mm, approx. 50 kg.

Technical contents can be subject to changes by Textechno.

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