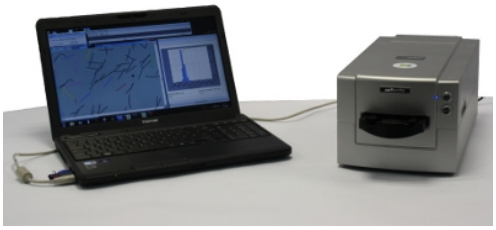
FibreShape Basic MF

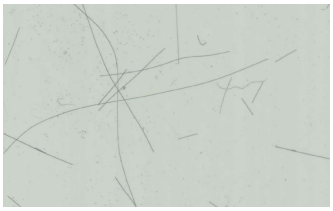
Analysis of industrial and natural fibers



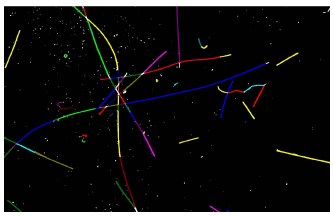
FibreShape Basic MF is a measurement system for the quality control and for the characterization of industrial and natural fibers. It is unique in its set of features, simple user interface, and rapid characterization process, from the sample preparation to the printed certificate. The interactive reporting system has many reporting capabilities and allows to customize the histograms and measurement reports.

With FibreShape Basic MF, fibers with a thickness between 10 µm and 1 mm and a length between 30 µm – 3 cm can be measured. If the measurement of long fibers with a thickness in the range 100 µm - 30 cm is required, FibreShape Basic Automatic can be used instead.
For the measurement of crossing stiff fibers FibreShape FiVer is the right system.

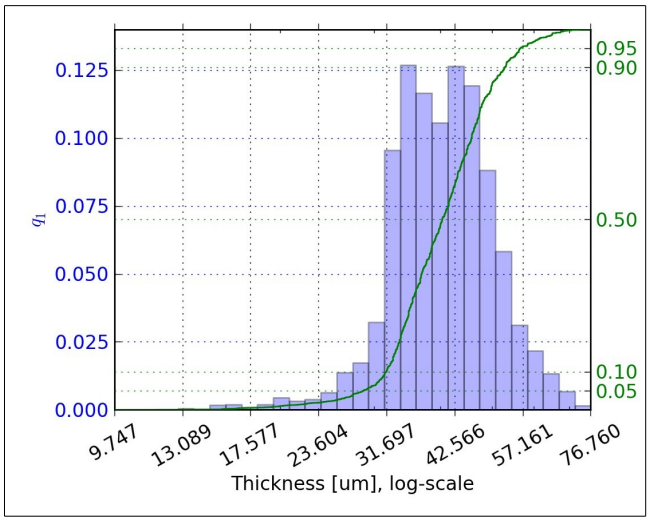
Thickness measurement of glass fibers with FibreShape Basic



Glass fibers



Glass fibers recognized with FibreShape Basic



IST - Innovative Sintering Technologies Ltd,
Ringstrasse 29, CH-7324 Vilters, Switzerland
Tel: +41817236217, Fax: +41860817236217, info@istag.ch, www.fibershape.ch

Specifications

Recommended size range:	MF- (middle format) scanner: 30 µm – 3 cm (fiber length)
Characterization parameters:	• size: length of non crossing fibers and width • shape descriptors according to ISO 9276 - 6 aspect ratio and elongation: furthermore curvature and rectangularity • orientation • color (red, green, blue)
Typical application:	• industrial fibers: glass fibers, carbon fibers, aramid fibers • natural fibers: cotton, hemp, flax, kenaf, etc.
Statistical evaluations:	• size or shape parameters weighted by length, area or volume • diagrams: histogram and/or cumulative distribution logarithmic and linear scale • statistical quantities: mean, median, standard deviation, span
ISO Compliance:	ISO 9276 - 6
Voltage:	220/110 V 50/60 Hz;
Software:	• freely adjustable size ranges, shape and color filters • allocation of each recognized fiber to the parameter values • calibration of the scanner • creation of individual user profiles • creation of individual measure masks • interactive reporting system available in English and German
Imaging:	Middle format scanner with 6 x 12 cm scanning area which allows to measure the objects in transmission light mode with up to 2900 dpi real optical resolution

IST - Innovative Sintering Technologies Ltd,
Ringstrasse 29, CH-7324 Vilters, Switzerland
Tel: +41817236217, Fax: +41860817236217, info@istag.ch, www.fibershape.ch