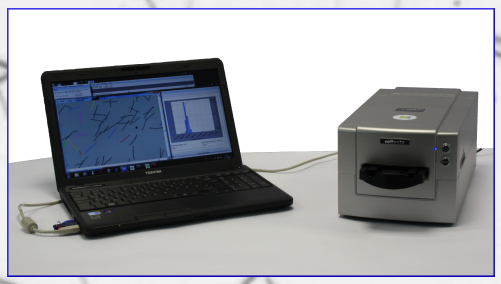
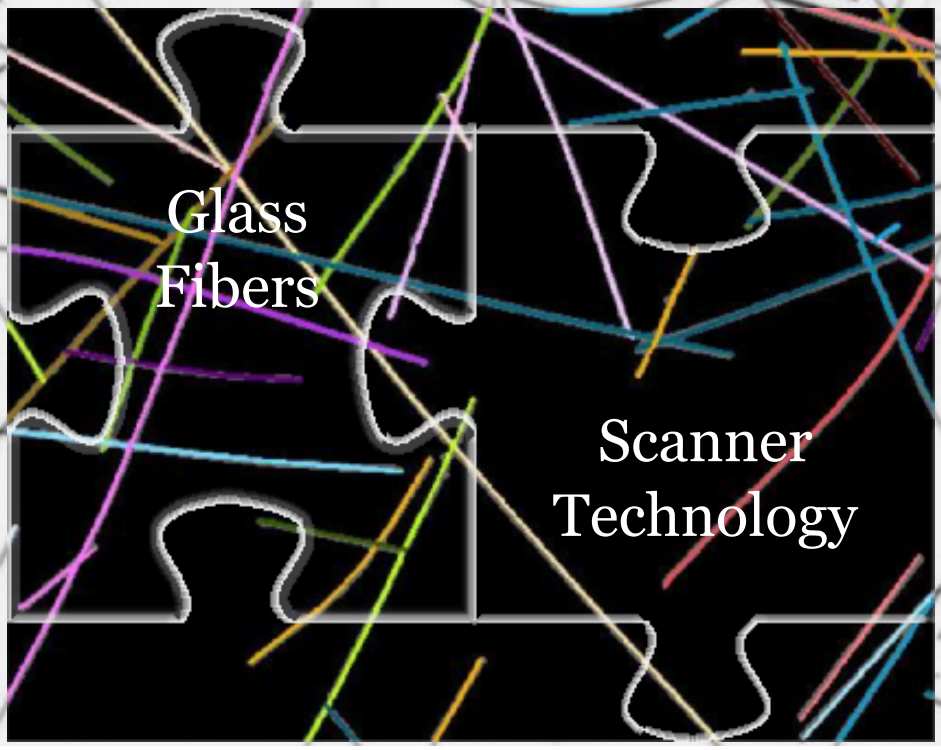
IST AG - Fibers & Particle Analysis

Glass Fibers Meet Scanner Technology

Length measurement of glass fibers



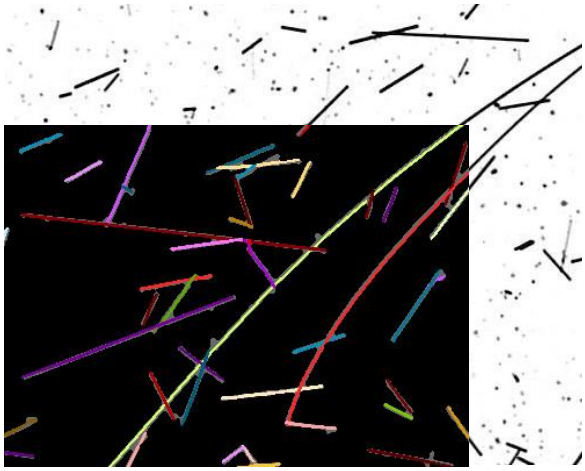


Glass fibers get introduced to FibreShape FiVer

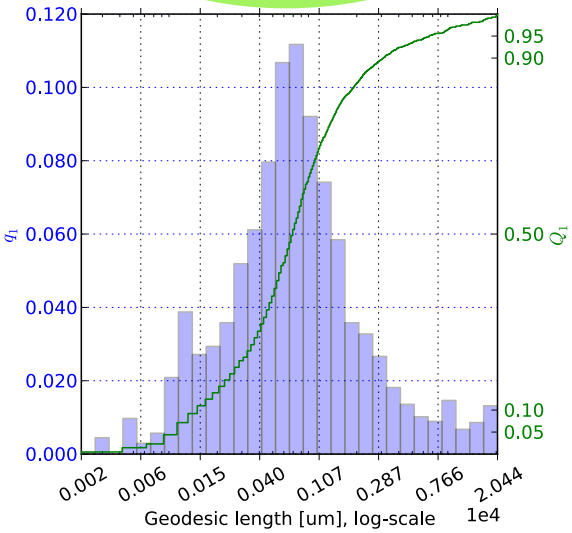
FibreShape FiVer

- measurement of the length of stiff crossing fibers
- very wide size range: fibers with length/width ratio up to 10'000
- interactive reporting system
- get results quickly in just about 15 min (sample preparation, scanning, report)
- representation of results conforms to ISO 9276 & ISO 13322

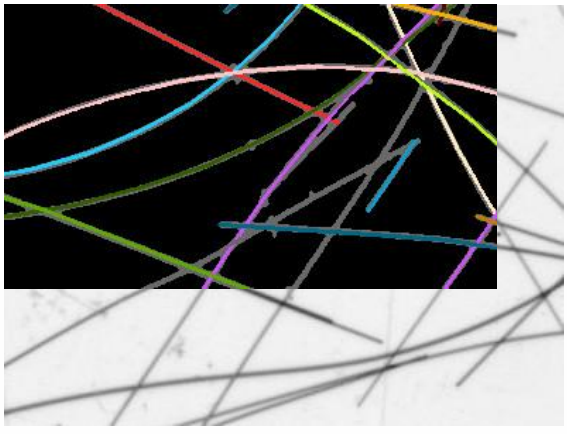
Length measurement with FibreShape FiVer



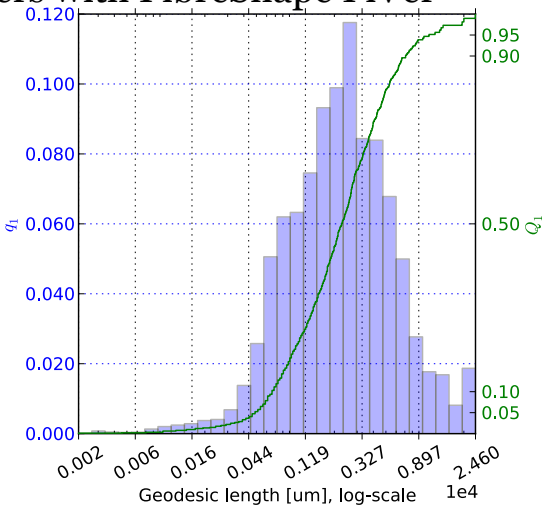
Glass fibers scanned at 2400 dpi.
Black overlay: fibers recognized by FibreShape FiVer



Length measurement of long & curved glass fibers with FibreShape FiVer



Glass fibers scanned at 2400 dpi.
Black overlay: fibers recognized by FibreShape FiVer



The length weighted histogram shows q1(x) = distribution density of the geodesic length. Q1(x) = cumulative distribution by length.

Dr. Hubert Schmid,
CEO IST AG

One of our strength is that our analysis is based on the **ISO norms** (ISO 9276-1 & ISO 13322).

The real optical resolution of the **medium format scanner** is **8µm** (**3200 dpi**). The measurement size range is:
30 µm- 5 cm in fiber length & 10µm - 1 mm in fiber width.
The scanning area is 6 cm x 12 cm.

The interactive reporting system has **many reporting capabilities** and allows to customize the histograms and measurement reports. It is possible to resume multiple samples per lot in a single report. Important is also that results from different measurements can be compared easily.

Software made in Switzerland

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