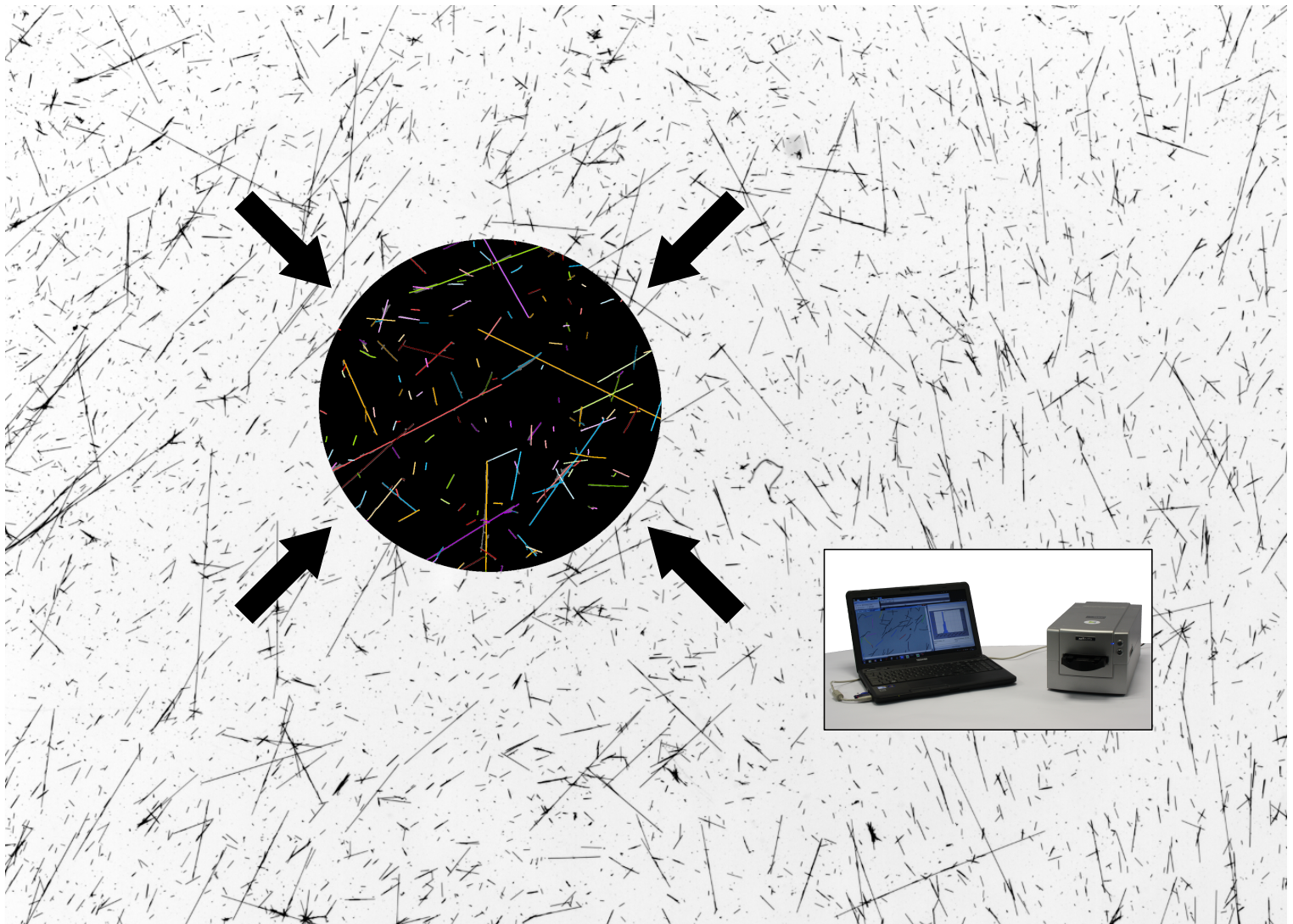
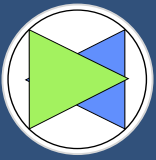


IST AG - Fiber & Particle Analysis

Carbon Fibers Meet Scanner Technology

Length measurement
of carbon fibers



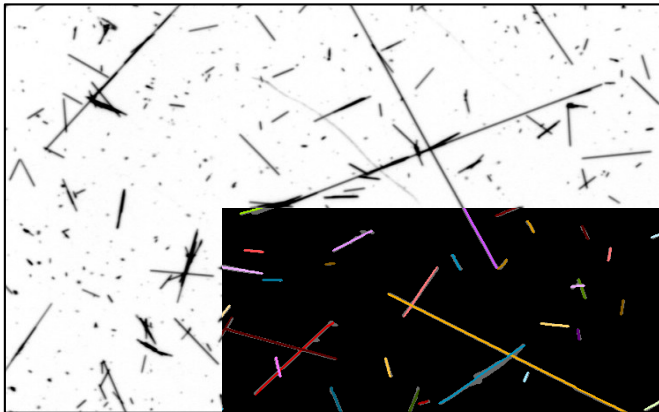


Carbon fibers get introduced to FibreShape FiVer

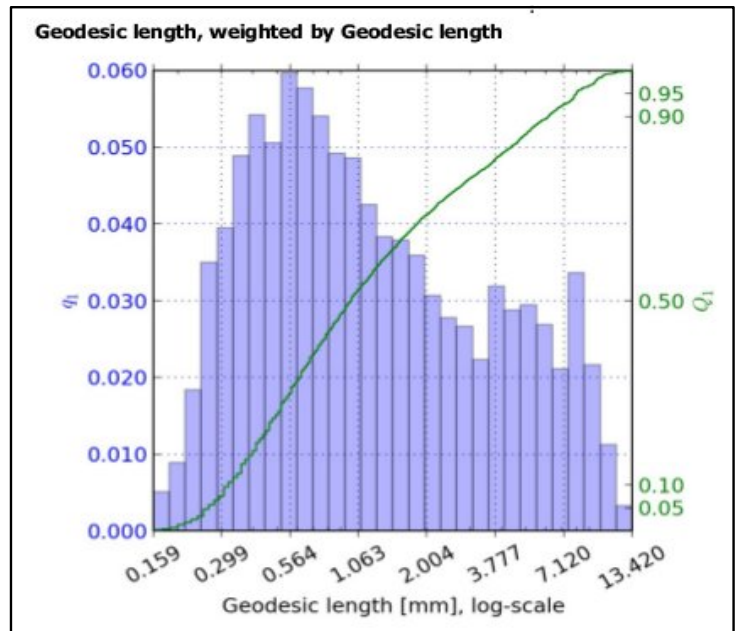
FibreShape FiVer

- 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



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



The length weighted histogram shows $q_1(x)$ = distribution density of the geodesic length. $Q_1(x)$ = cumulative distribution by length.



Dr. Hubert Schmid,
CEO IST Ltd.

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 8 μ m (3200 dpi). This resolution is necessary to be able to distinguish two carbon fibers lying close to each other.

The measurement size range is: 30 μ m- 5 cm in fiber length & 10 μ m - 1 mm in fiber width. The scanning area is 6 cm x 12 cm.

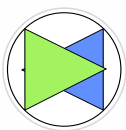
The interactive reporting system has many reporting capabilities and allows to customize the histograms and measurement reports. It is possible to resume multiple samples per lot in a single report. Important is also that results from different measurements can be compared easily.



Software made in Switzerland

www.istag.ch

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IST AG - Innovative Sintering Technologies
Ringstrasse 29
CH-7324 Vilters
Switzerland

+41 81 723 62 17
info@istag.ch