TEXTILE SOFTWARE

This new program with our polarizing microscope is very useful for quality control or textile testing laboratories for the analysis, micro-measurement of fiber, yarn, threads, textile Material, non-woven fabrics etc.
The real full screen display of image, acquisition, annotations, enhancement with hundred of filters, measurements, statistical processing of measure data are few of the capability of Textile Pro.

Photographs of all Fibers view are pre loaded in the software to identify fibers without prior knowledge in the same. The library can be created & retrieved within the same programme.

Few of common usage of Textile Pro are:
Micro analysis of yarns and fiber sections.

Measurements of length, surfaces, perimeters, angles, distance between two points or lines or objects.

Fast and easy way the fineness analysis of single fibers.

Check the purchased material can be identify the type of fiber, comparing it with the fiber pictures stored in the Data bank with the longitudinal and the sectional views.

Check and measure the quality and shape of Lycra or synthetic Multifilament single threads.

Analyse the compactness of non-woven Fabrics.

Analyse the Yarn structure and detect possible defects.

Detect, identify and measure possible impurities contained in textile materials.

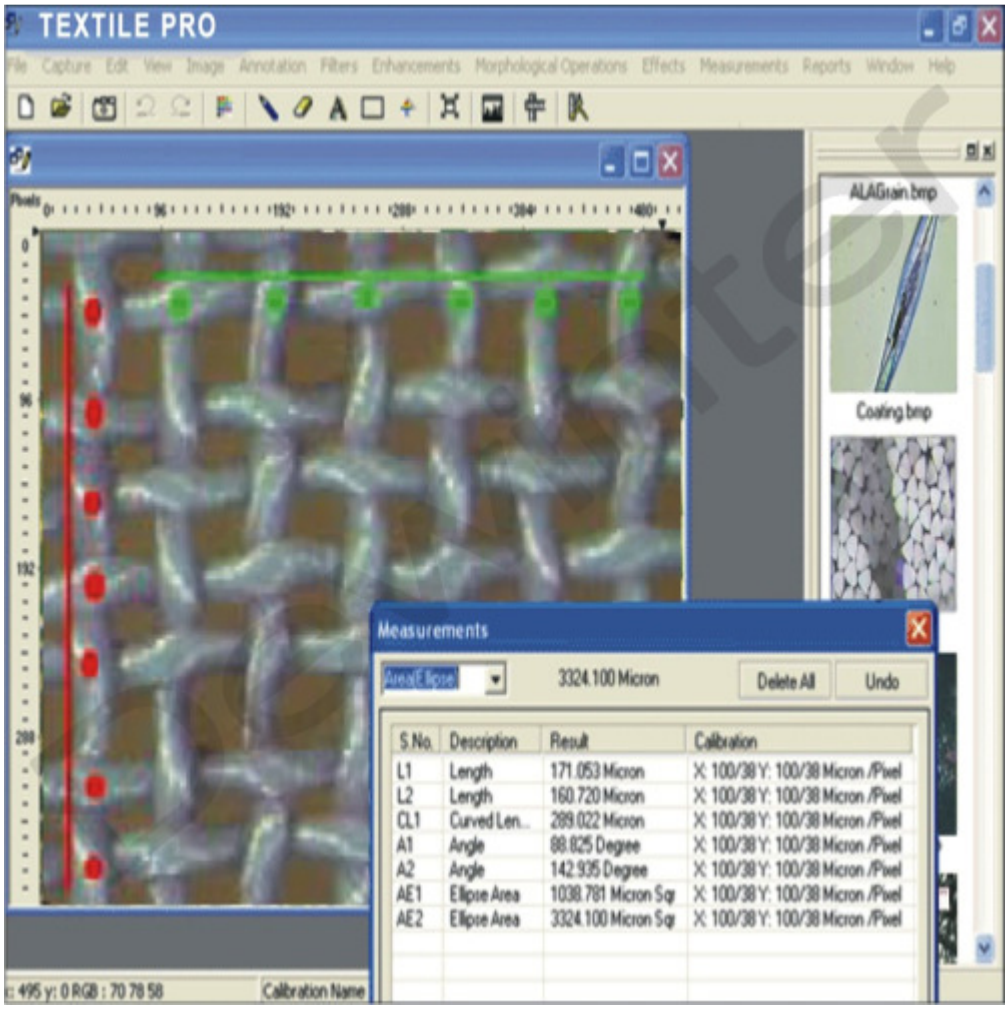
Analyse the compactness of non-woven fabries.

Measure section surfaces and perimeters.

Analyse mechanical parts like needle points spinnerets etc.

Macro analysis of a yarn section.

Reduce the fabric warp and weft density to a cm or inch.

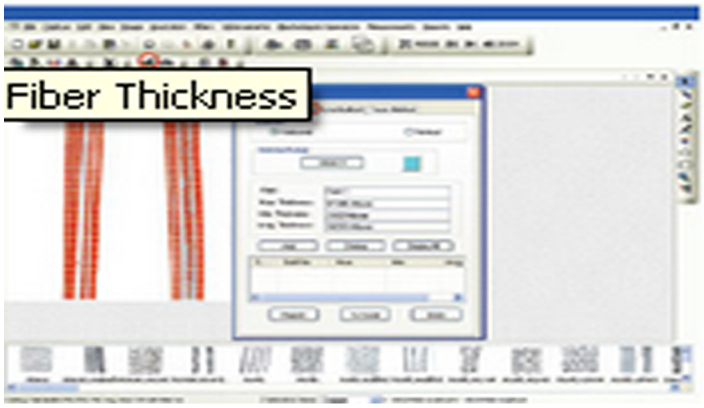


FIBER THICKNESS

This Tool Can Rapidly Measure Thickness And Width Of A Sample At Multiple Position. It Provides a Capability and measurement repeatability. Fiber Thickness can be measured by using the following three methods

- Pseudo Color Method
- Parallel Line Method
- TRACE method

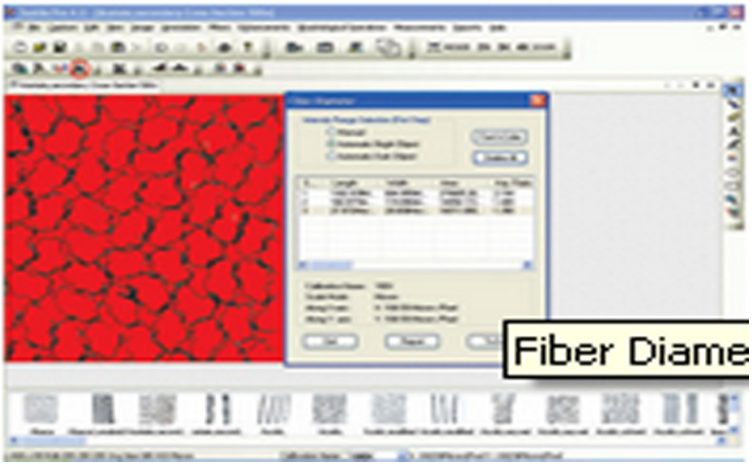
Result Include: Mean Minimum and Maximum widths



FIBER DAIMETER:

This tool can be measure upto 21 different parameters of a specific particle which is identified on the basis of its intensity range, parameters are;

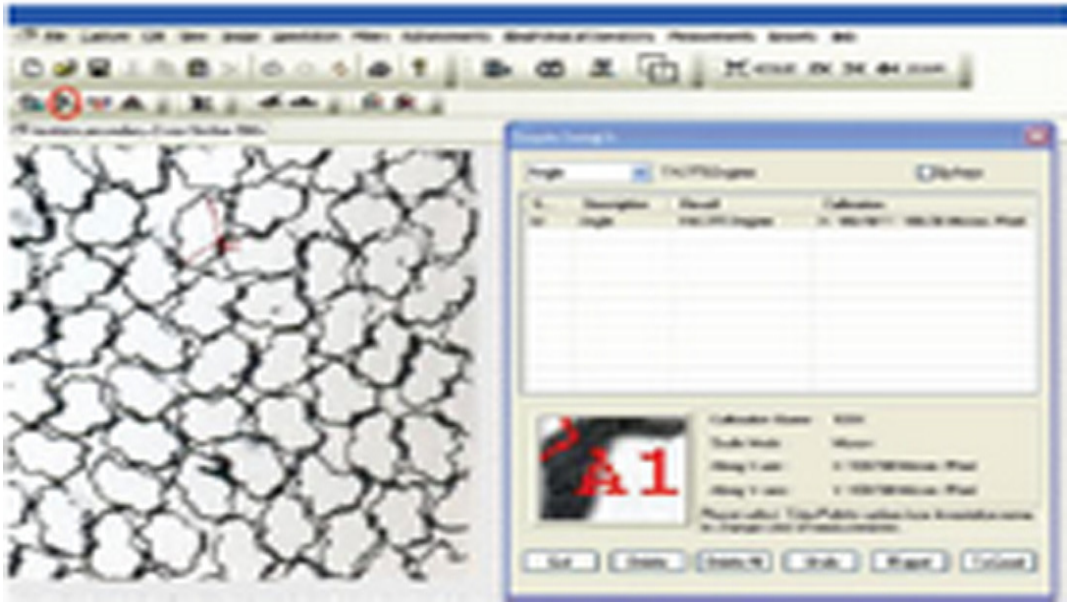
- Length
- Area
- Roundness
- Box area
- Centroid Y
- Orientation
- Spere volume
- Minor axis
- Thread width
- Minimum radius
- Width
- Aspect ratio
- Shape
- Centroid x
- Elongation
- Diameter
- Sphere volume
- Major axis
- Thread length
- Fiber width



STAPLE LENGTH :

The following measurement can be doe by using this tools:

- Straight Length
- Angle curved
- Length width
- Area radius
- perimeter



Phase segmentation

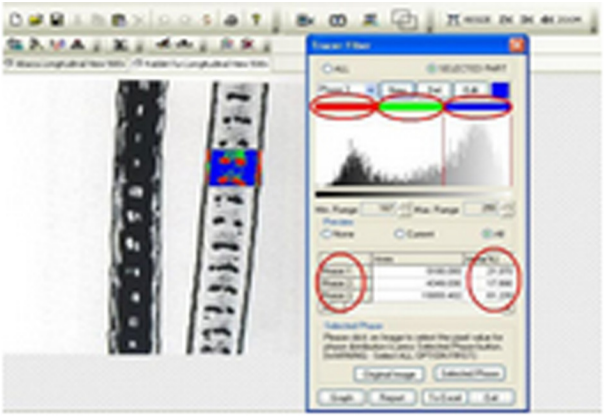
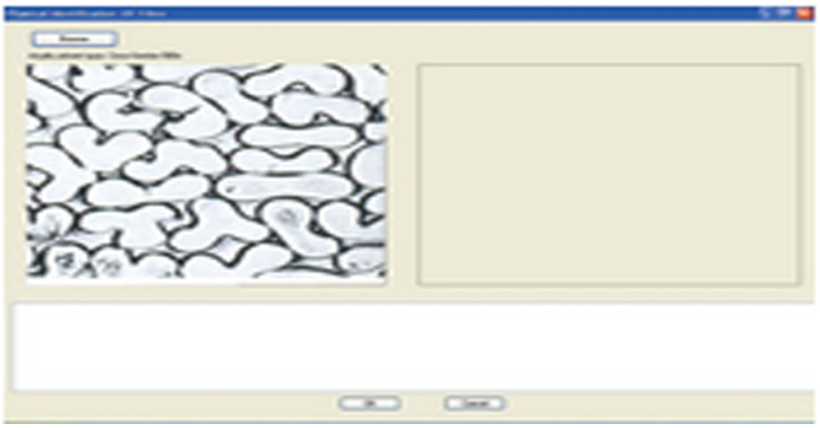


Image Participating on the base of intensity / gray scale range. Phase can be detected and its area is estimated on the basis of its intensity. Multiple Phases are identified by colored overlays and can be simultaneously displayed in the same field of view. The results and image displayed get stored in the industrial standard.

Physical Identification of fiber

This tool compares the pattern in a cross section with those in the database and displayed the matching fiber type



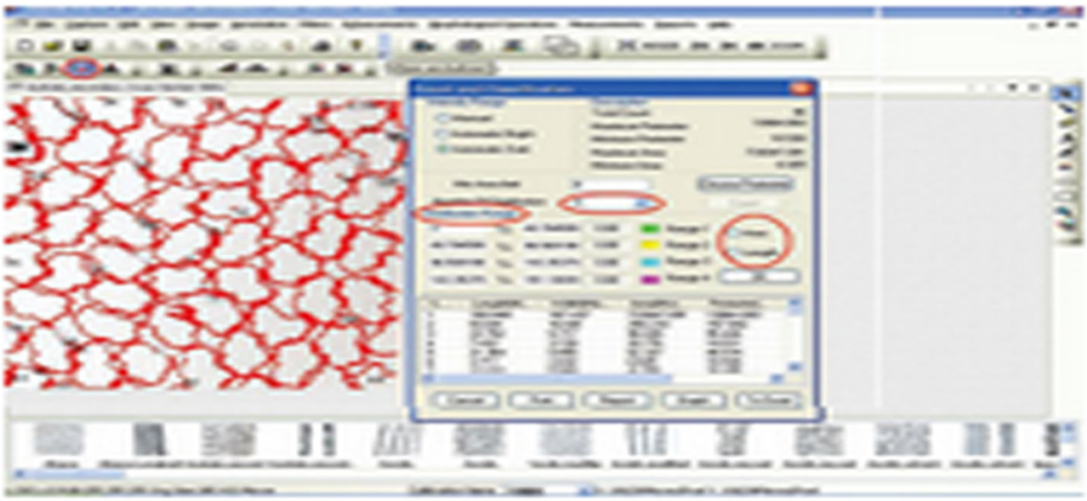
PACKING DENSITY

Autamatically Indentify pores in a fiber cross- section and can calculate the following values:

• Number of pores	• Pores %ge	• Maximum parameters
• Minimum parameter	• Maximum area	• Minimum area

COUNT & CLASSIFICATION

Automatically Identify objects in an image, count them and classify them according to are of length. A maximum of four distribution ranges can be defined and can be easily distinguished through color coding



FIBER DENIER & MICRONAIRE VALUE

Fiber denier and micronaire value for a given fiber type & diameter .

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