

Real time measurement of monofilament diameter and opacity online - for a broad range of fibre types

Specification

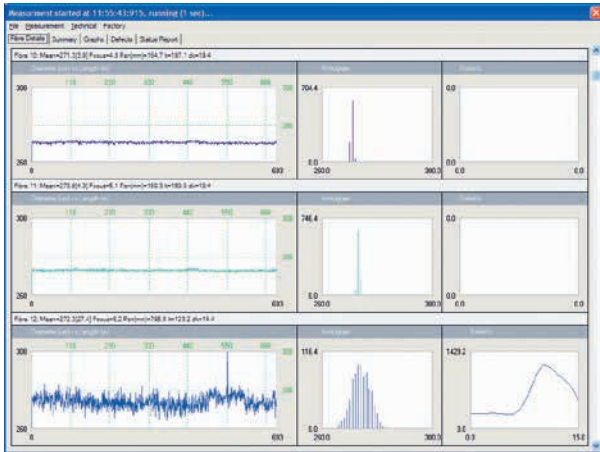
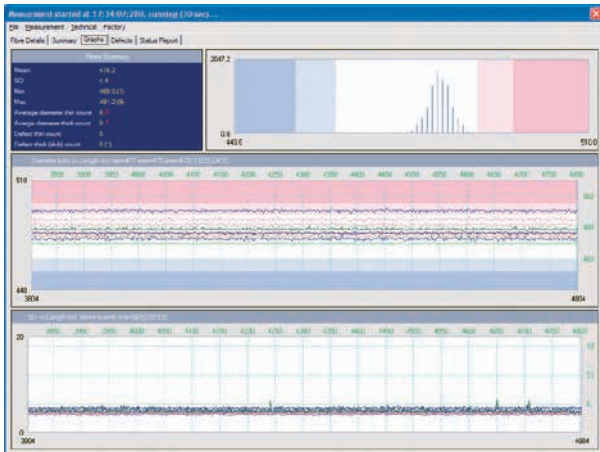
Technology	Charged coupled device (CCD) and light emitting devices (LED)
Diameter range	0.005 to 1.5 mm
Sample Rate per filament	14000
Accuracy	± 0.002 mm
Number of simultaneous filaments	400
Fault detection	Slubs (as short as 1 mm), necks, Standard deviation, thick and thin places
Outputs	4 (customisable for different defects)
Dimensions	Typical size: 120 x 490 x 1300 mm however length is dependent on the scan width required
Operating temperature	0-60 °C
Minimum distance between filaments	3 mm



OFDA-MFX is a technology that allows rapid, high resolution measurement of the diameter and opacity of monofilaments. **OFDA-MFX** is based on intelligent image analysis of a line scan digital video sensor to greatly improve accuracy over previous laser and shadow based technology.

A profound technical knowledge, experience in the market as well as close collaboration with the customers guaranty professional handling of every project.

Software records data, generate trending information and label printouts for the product.



“ Alarms can be used to trigger upper and lower diameter limits to immediately notify the operators of any change in the process.

Measured values

- Diameter
- Length
- Opacity

Statistical values

- Mean value (mean diameter in mm, denier or decitex)
- Standard deviation
- Histogram of diameter
- All data can be exported to spreadsheets for analysis

Main features include:

- Non-contact measurement makes non-destructive measurements and easy material handling
- No moving parts to ensure high reliability
- Ultra-high speed detects short defects
- Customs software facility
- The most cost effect system on the market
- Compact design allows fast integration into production lines
- Excellent resistance to dust and dirt particles
- Multiple digital outputs for multiple defect alarms
- Label print out for spool identification and defect print out for quality control

