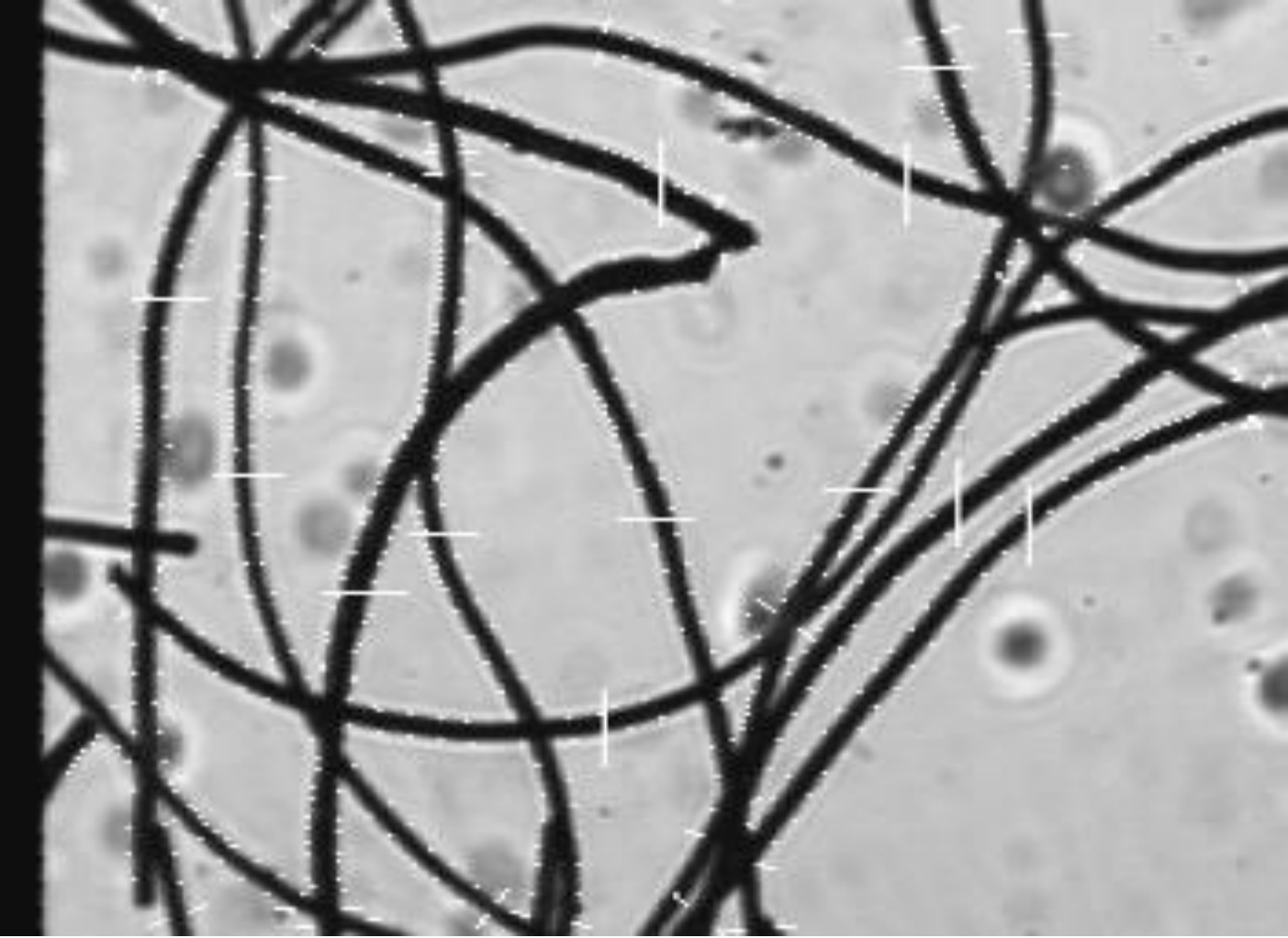


OFDA2000

Rapid Automatic Measurement of Diameter and Curvature of Wool, Alpaca, Cashmere, Synthetic, Glass and Other Fibres



The new OFDA2000 BT is half the weight and less than 1/3 the volume of the original OFDA2000.

It uses the same software and digital video technology as the original to measure fibre diameter and distribution to a resolution of 0.1µm. The OFDA family is the only image processing instrument that has passed strict testing to be recognised by an International Wool Textile Organisation Test Method (IWTO TM47).

OFDA2000 is in some cases, the only accurate method to measure diameter on fibres such as wool, synthetic fibres, mohair, cashmere, glass, metal wires, flax and human hair. The unique advantage of OFDA2000 is the ability to measure thousands of fibre snippets in under 30 seconds. Most fibre samples have a high standard deviation of diameter, and human operators using microscope or electron microscope cannot measure enough fibres to give an accurate mean or distribution. Furthermore, human operators exhibit significant operator bias.

OFDA2000 is also the only rapid, direct way of measuring fibre curvature (related to crimp). The curvature of fibres is critical to their processing.

Benefits of the OFDA2000

- World's fastest fibre diameter and curvature measurement instrument, with up to 20,000 fibre snippets measured per minute
- International recognition through peer reviewed round trials, leading to the acceptance of the test method: IWTO TM47
- The ability to measure fibre diameter of many fibre types by cutting 2mm snippets from samples in web form
- The ability to measure the diameter variation along the staple. Variation of animal fibres and human hair is used to determine the effect of diet, this has a large effect on the strength and processing of the fibres.
- Accurate measurement of fibre curvature
- World market leader for animal fibre measurement, established for over 28 years, with more than 400 OFDA instruments sold across 30 countries
- Able to be operated via the internet from the factory for rapid support

OFDA2000 Provides these Test Results in Fibreglass Slide Mode (greasy wool staples)

- Diameter: mean, standard deviation, coarse fibre %, histogram
- Curvature: mean, standard deviation, histogram
- Diameter variation graph along fibre staple for animal fibres and human hair



Optional Cut 2mm Snippet Mode With 70mm Glass Slide Adapter

1. Snippets are cut from clean samples using a guillotine with a blade width of 0.7 or 2mm
2. Snippets are spread onto 70 x 70 x 2mm hinged glass slide using the automatic spreader
3. Slide is placed onto the OFDA2000 and is automatically measured in 25 seconds
4. Snippets are vacuumed off the slide once the measurement is complete



Included Components:

- Laptop PC with Windows 10
- OFDA2000 instrument
- Meswin software for viewing, sorting and printing of results
- Accessories pack

Optional Snippet mode (70mm glass slide):

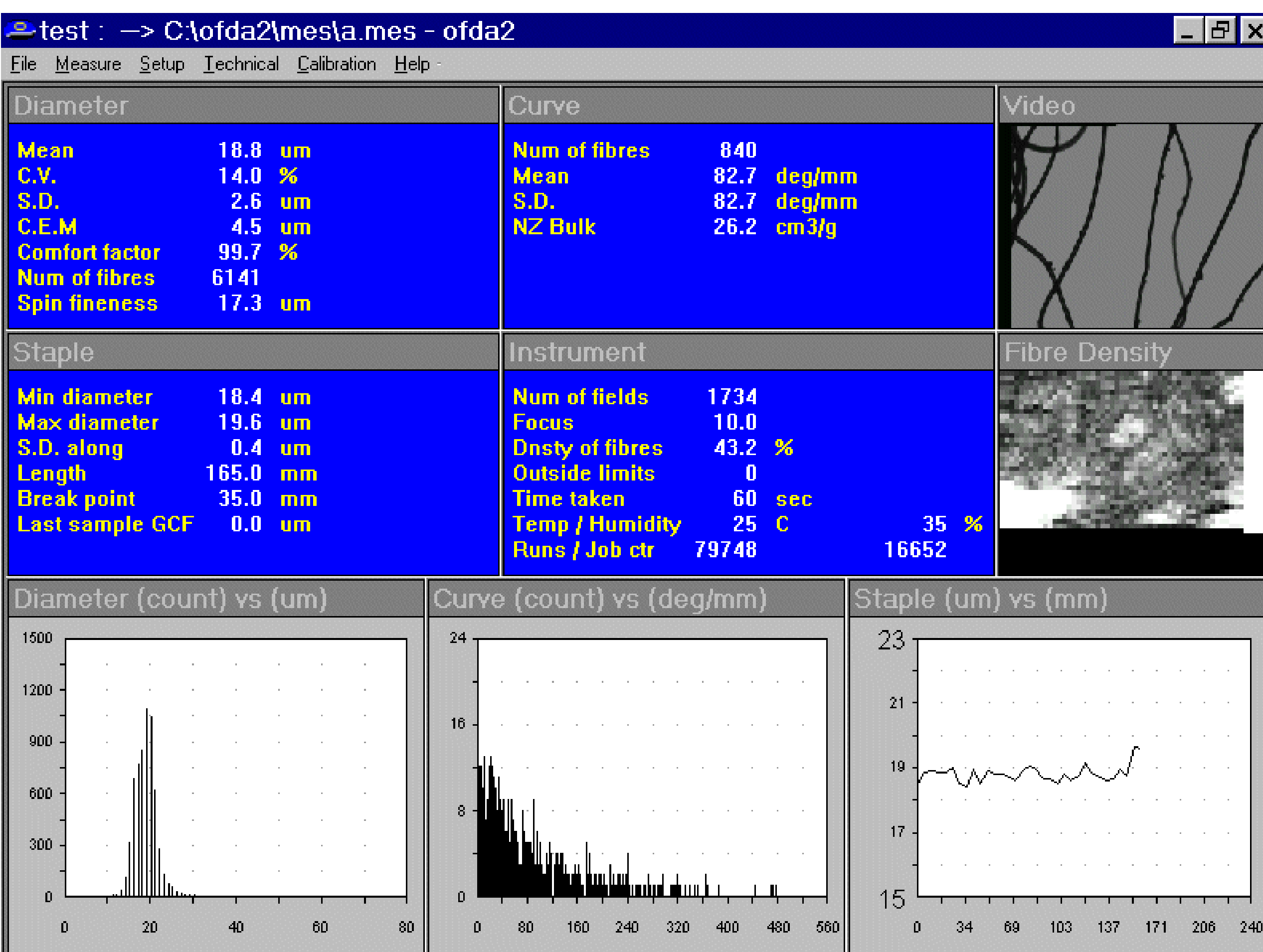
- Slide holder
- Automatic fibre snippet spreader
- 40 70mm glass slides
- Fibre guillotine
- Accessories

Technical Data

- OFDA Weight: 8kg
- Dimension: (L x W x H)
42 x 34 x 18cm
- Voltage: 110 - 240VAC
- Power consumption: 20W

Measurement ranges:

- Diameter: 4 – 300um
- Curvature: 0 - 360deg/mm
- Diameter Accuracy (not including sampling error): mean and SD ± 0.1 um. Histogram in 1um bins
- Curvature resolution: mean and SD ± 0.1 deg/mm Histogram in 1deg/mm bins
- Fibre types: wool, cashmere, mohair, most animal and synthetic fibre sliver, glass, fine metal wires, some plant fibres



References and Research Papers

Contact your agent or visit www.ofda.com to receive the latest papers in electronic form

Hornik Fibertech
Eisfeldstrasse 8
CH-8050 Zürich
Phone + 41 55 246 55 11
sales@Hornik.cc

