

- Most cost-effective way for fibre processors to determine their own fibre length distribution
- Popular with processors of synthetic and natural fibres
- IWTO method of test
- Automatically produces fibre length diagram and results in under a minute
- Direct digital readout
- Automatic fibre transport
- Computer automatically carries out all relevant calculations and prints fibre diagram
- Windows™ based operating software
- Can be supplied for use with customers' own computer. [PC compatible/Windows™]
- Point and click functions provide an extremely user friendly system, full colour display with multiple printer options

The WIRA Fibre Diagram Machine is a well-established instrument used in textile testing laboratories throughout the world, for the determination of mean fibre length and distribution.

This well-known and popular instrument is universally suited to processors of natural and synthetic fibres.

Once a fibre draw has been prepared from a sample of top, the testing operation is automatic. The machine transports the fibre draw through the measuring head and simultaneously transmits the data to a computer, which carries out all necessary calculations. The mean fibre length and the coefficient of variation together with a graph of the fibre diagram may then be printed out.

The data and all relevant information may be stored on disk for future reference.

**Conforms to:**  
**BS 5182:1975(2002),**  
**ISO 2646:1974,**  
**IWTO-16-02 (DRAFT)**

*Dimensions (of instrument):*  
*Width: 840mm*  
*Depth: 360mm*  
*Height: 150mm*  
*Dimensions of Sealing Unit:*  
*Width: 270mm*  
*Depth: 510mm*  
*Height: 135mm*  
*Power Consumption: 125W*



**The ONLY machine  
specifically named in the  
IWTO test method**

**Also available:**

- *Computer with Windows™ software*  
Order code **FDM:COM**
- *Printer*  
Order code **FDM:PNT**
- *Windows™ software upgrade*  
Order code **FDM:WIN**

**Consumables:**

- *Plastic tape for sealing unit.*  
Order code **FDM:PSP**
- *PTFE strips for sealing unit (5/pk)*  
Order code **FDM:PFE**
- *Heating element*  
Order code **FDM-HET**

## Test Method

The sample of top to be tested is clamped in the sealing unit. A squared end is then produced by removing the protruding fibres with a special grip. The squared ends of the fibres are bonded to a strip of plastic tape and gently pulled away.

The draw is fed into the machine and automatically analysed.

The WIRA Fibre Diagram Machine test is approved by the International Wool Textile Organisation, as detailed in publication IWTO-16-02 (draft) 'Method of test for wool fibre length using a WIRA Fibre Diagram Machine'.

Supplied with software and Interface card and can be used with the customers' own computer.