Metrix+™
Innovative Excellence

TEXTILE HARDNESS TESTER

HT TEX 2P5/ 5/ 20

Measure winding density of textile bobbins

Measuring principle

This works on spring load and penetration depth principle, where the resistance force from the penetration against the sample is measured to estimate the hardness. Similar principle to Shore hardness testing of rubbers.

Applications

This can be used to measure winding density(hardness) of textile bobbins, beams, spools, cones, dye packages, etc.

Features

- Convertible probe, curved for bobbin <400mm diameter, flat end for bobbin >400mm diameter.
- Different indenters with 2.5mm/ 5mm/ 10mm diameter for various hardness
- Avg calculations and max data hold
- Optional Data logging

Technical Specifications

Model	*Metrix+* HT TEX 2P5	*Metrix+* HT TEX 5	*Metrix+* HT TEX 10
Indenter	Ball 2.5mm diameter	Ball 5mm diameter	Ball 10mm diameter
Application	For closely wound bobbins of synthetic, finished fibers and filaments	For loosely wound bobbins of synthetic fibers and closely wound natural fibers, yarns and threads	For very loosely wound bobbins of thick yarns, such as carpet yarns
Convertible probe	Curved end is used for bobbin diameter <400mm (working face 55mm diameter) Flat end is used for bobbin diameter >400mm (working face 45mm diameter)		
Measurement range	10 ~ 90H, display range is 0 ~ 100H		
Resolution	0.1H		
Accuracy	±1H		
Testing parameters*	Depth of Indentation 0~2.5mm, Test pressure ~12.5N, Measuring spring force: 0.55~8.065N		
Operating conditions	Temp: 0~40C, Humidity <80% RH		
Dimensions	177 x 65 x 45mm, approx. 285g		
Power Source	2 x 1.5V AAA batteries		
Std accessories	Main unit, pins, screwdriver, manual, case		
Optional accessories	Data logging: PC interface (USB & software), Bluetooth		

* Meets requirement of Shore A, Spring load of outer ring to create constant pressure when outer ring is pulled down to red marking

Model and Specifications subject to change without notice.