

Textile Hardness Tester

Product Description

AMITTARI Textile Hardness Tester AS-120T is used to measure the winding density (hardness) of textile bobbins, beams, spools, cones, dye packages etc. The principle used to measure textile hardness is based on measuring the resistance force of the penetration of a ball against the spool under a known spring load.

Product Features

- * Convertible probe, the curved end of the probe is used for the bobbin with a diameter less than or equal to 400mm, and the flat end of the probe is suitable for the bobbin with a diameter greater than 400mm.
- * With average calculate, peak value deposit function.
- * Use USB data output to connect with PC.
- * Provide Bluetooth data output choice.



Product Parameter

Model	AS-120T-2.5	AS-120T-5	AS-120T-10
Parameters	Tested Result / Mean Value / Max. Value		
Indenter	Ball 2.5mmΦ	Ball 5mmΦ	Ball 10mmΦ
Convertible Probe	The curved end of the probe is used for the bobbin with a diameter less than or equal to 400mm, and the plane end of the probe is suitable for the bobbin with a diameter greater than 400mm		
Area Of 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
Display Range	0~100H (hardness graduation marks)		
Testing Range	10~90H (hardness graduation marks)		
Accuracy	±1H		
Resolution	0.1H		
Battery Indicator	Low Battery Indicator		
Auto Switch Off	√		
Depth Of Indentation*	0~2.5mm		
Test Pressure**	Approx. 12.5N		
Measuring Spring Force*	0.55~8.065N		
Scale Diameter	51mm		
Working Face Radius	55mm (when using the curved end of the probe)		
Working Face Flat	45mmΦ (when using the plane end of the probe)		
Operating Temperature	0~40°C		
Operating Humidity	<80%RH		
Power Supply	2x1.5vAAA (UM-4) Battery		
Size	178x65x45 mm		
Weight	290 g (Not included Batteries)		
Standard Accessories	Main Unit		
	Carrying Case		
	Operation Manual		
Optional Accessories	USB Data Cable with Software		
	Bluetooth Data Adapter with Software		

* Meets requirement of Shore A

** Spring load of outer ring to create constant pressure when outer ring is pulled down to red marking