



Schmidt Hardness Tester

40-20-10

TMI Buchel Schmidt Hardness Tester

The Schmidt Hardness Tester delivers fast, accurate, and non-destructive measurement of paper, film, and foil roll hardness. Portable, versatile, and compliant with industry standards, it ensures consistent roll quality for printing and converting processes.

Reliable roll hardness measurement for paper, film, and foil

Developed specifically for the paper and packaging industries, the Schmidt Hardness Tester provides precise, non-destructive hardness profiles of rolls. By measuring rebound values across the roll surface, it detects variations in tightness caused by moisture, thickness differences, or winding inconsistencies, helping prevent downstream converting and printing issues.

Fast, easy, and portable

The instrument is lightweight, self-contained, and designed for portability. Test intervals of 5–10 cm across the roll give immediate insight into hardness consistency. The testing process is non-destructive, leaving only minimal marks on the top layers of the roll. This instrument is ideal for routine checks between roll changes.

Digital and connected capabilities

Modern versions of the Schmidt Hardness Tester include digital readouts and wireless connectivity to mobile apps or Bluetooth printers. Data can be recorded, analyzed, and exported via CSV or PDF, with options for geolocation tagging, images, audio notes, and series statistics.

Ordering Information:

Article Number	Article Description
40-20-10	Schmidt Hardness Tester

Disclaimer

The information contained in this document is liable to modification from time to time in the light of experience and our policy of continuous product development. Check the Industrial Physics website for the latest version.

Technical Specifications:

Instrument size:	279 x 133 x 89 mm (11 x 5.25 x 3.5 in)
Weight:	1.4 kg (3 lbs)
Case dimensions:	324 x 140 x 114 mm (12.75 x 5.5 x 4.5 in)
Impact energy:	0.735 Nm
Measurement range:	~17–80 R
Memory:	>20,000 impacts
Display:	Analog and backlit digital (100 x 100 pixels)
Connectivity:	Bluetooth LE, USB
Standards:	TAPPI T 834, TAPPI TIP 1004-01
Mobile App:	Proceq Paper Schmidt App (iOS and Android compatible)

Features & Benefits:

- Portable and self-contained
- Lightweight, easy to carry, with protective carrying case
- Fast, repeatable readings
- Provides non-destructive measurement across the roll width
- Digital and analog options
- Records data for up to 20,000 impacts
- Wireless connectivity
- Bluetooth and USB for data transfer and app integration
- App integration
- Mobile app provides voice readout, geotagging, images, and logbook features
- Customizable reporting
- Set min/max limits, generate roll profiles, and export results to CSV or PDF
- Standard compliance
- Conforms to TAPPI T 834 and TIP 1004-01 standards

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