

SMT 1

Robust and user-friendly manual tablet hardness tester with up to 5 parameters. From simple "hardness only" tests to complete measurement series in IPC, QC and R&D.



SOTAX

Manual Tablet Hardness Tester



SMT 1 — Compact. Robust. Easy to use.



sotax.com/SMT1

- 5 parameters
- Simple operation
- Robust and precise up to 800 N
- Dr. Schleuniger® technology
- Advanced reporting and test protocols

Intuitive icon-based EasyTouch™ control with user administration

Configurable test reports and various printer interfaces including export of test results to USB flash drive

Thickness / Width / Length (Diameter) / Hardness station with optimized jaw movements for maximum precision

SmartProtect™

Exchangeable tongues for easy tablet orientation

Debris collection bin

Recording of weight measurements from external analytical balance





All sizes, shapes, and materials.



Your application?

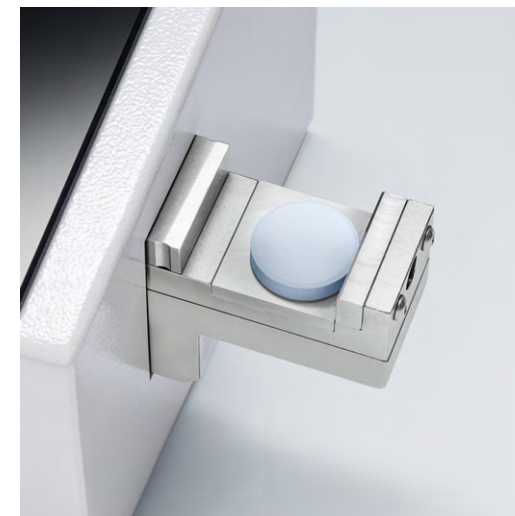
The SMT 1 is designed for testing almost anything. From pharmaceutical dosage forms to catalysts, pellets, extruded materials, and more. Robust Dr. Schleuniger® technology paired with powerful state-of-the-art electronics provide for highly accurate and repeatable hardness results up to 800 N. Low breaking forces (< 10 N) associated with small and brittle test samples are precisely measured using a special "sensitive mode".

100% flexible.

The highly accessible test area accepts all types of shapes, sizes, and materials. Optimized jaw movements provide short cycle times, while quick-change tongues allow for simple tablet handling by the operator. Clip-on jaws further extend the SMT 1 testing capabilities for 3-point bending strength tests or other testing methods.



Quick-change tongue with groove
for easy alignment of convex shapes



Quick-change tongue with flat surface



Clip-on jaws for 3-point bending strength test



Proven Reliability.

Based on proven Dr. Schleuniger® measuring technology, the SMT 1 is a true workhorse for your IPC and QC labs. Robust design paired with user-friendly operation and an extremely small footprint to occupy only a minimum of valuable bench space. Excellent accessibility provides for easy cleaning and ensures 100% visibility of the testing process at all times.



EasyTouch™

The SMT 1 is all about easy operation. Operators simply select a product and press "START" – ensuring that tests are always performed according to predefined methods. Additionally, simple quick-tests can be performed anytime. Different access levels make sure that settings or product specifications can only be modified by authorized personnel.

Reporting.

A test protocol is automatically generated and printed at the end of each test. Results for all tested parameters including statistical analysis are presented in a clearly structured format. If pre-programmed products have been used, the printout includes all specifications and indicates whether limit violations (T1/T2/PL) have occurred. Report templates can be easily configured to individual requirements – from comprehensive test protocols to very basic reporting needs.

SMT 1 Technical Specifications

Weight (Mass)	External balance	Mettler Toledo®/ Sartorius®
	Units of measure	mg / g
	Resolution	1.0 mg / 0.1 mg / 0.01 mg
Thickness	Units of measure	mm / inch
	Resolution	0.01 mm
	Measuring range	2 – 35 mm
	Repeatability	± 0.03 mm
Width / Length (Diameter)	Units of measure	mm / inch
	Resolution	0.01 mm
	Measuring range	2 – 35 mm
	Repeatability	± 0.03 mm
Hardness	Units of measure	N / Kp / Sc / UDF
	Measuring range	2 – 800 N
	Repeatability	± 1 N
	Dr. Schleuniger® S-beam load cell	99.98 % linearity, over entire measuring range
	Calibration (Adjustment / Verification)	with reference weights
Measuring principle	Constant speed	0.05 – 5 mm/s, programmable
	Linear force increase	10 – 200 N/s, programmable
Printer	PostScript® 3 (PS3)	Ethernet, USB
	Epson® 40col.	RS-232 serial
Interfaces		Ethernet, 2 × USB, 3 × RS-232 serial
Power supply		100 – 240 V / 50 – 60 Hz
CE Conformity	The SMT 1 fully complies with all CE and EMC equipment guidelines relative to mechanical and electrical safety and electromagnetic compatibility.	

		Standard
Configuration	Weight (Mass), with external balance	●
	Thickness	●
	Width	●
	Length (Diameter)	●
	Hardness	●
EasyTouch™	Program capacity / Sample size	100 / 200
	User administration	●
	Xport™ (serial data transfer)	●
Weight	(without packaging)	10 kg (22 lbs)
Dimensions	Width	371 mm (14.6 inch)
	Depth	206 mm (8.2 inch)
	Height	171 mm (6.8 inch)

● included / required
○ optional

Technical specifications are subject to change without prior notice. Products illustrated in this brochure may include options or modifications not fitted as standard. No liability for errors and omissions.

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