



**The SOTAX HT 1 Hardness Tester with the revolutionary Auto Alignment™ device rapidly aligns all common forms of tablets for trouble-free testing.**

- ▶ Testing of five essential physical parameters: hardness, thickness, diameter/length, width and weight of a tablet
- ▶ Equipped with the patented Auto Alignment™ device, even the most difficult of tablet shapes are automatically aligned properly to prevent erroneous hardness measurements
- ▶ Two hardness measurement principles "Constant Speed" or "Constant Force" with a measuring range of up to 500 or 1000 N can be applied to match existing testers on the market
- ▶ Meets the USP chapter 1217 requirements: three points calibration and tablet orientation

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## Technical data

<b>Measurement Principles</b>	<b>Constant Speed and Constant Force</b>
<b>Range</b>	<b>5 – 200 mm/min, 10 – 100 N/sec</b>
<b>Measurement Range</b>	
<b>Hardness Accuracy</b>	<b>4 – 500 Newton +/-1 Newton</b>
<b>Diameter (Optional)</b>	<b>0.00 – 30.00 mm to 60 mm</b>
<b>Accuracy</b>	<b>+/-0.01 mm</b>
<b>Thickness Accuracy</b>	<b>0.50 – 100.00 mm +/-0.01 mm</b>
<b>Weight Accuracy Power</b>	<b>20.0 mg – 100.0 g +/-0.1 mg 230 V/50 Hz or 110 V/60 Hz</b>
<b>Interface</b>	<b>RS-232-C</b>
<b>Width/depth/height</b>	<b>290/290/250 mm</b>
<b>Weight</b>	<b>8 kg</b>

## Order information

<b>Part #</b>	<b>Description</b>
<b>8700</b>	<b>SOTAX HT 1</b>
<b>8700-01</b>	<b>SOTAX HT 1 500 N</b>
<b>8700-02</b>	<b>SOTAX HT 1 1000 N</b>
<b>8700-03</b>	<b>SOTAX HT 1 500 N No Auto Alignment</b>
<b>8700-04</b>	<b>SOTAX HT 1 1000 N No Auto Alignment</b>
<b>8707</b>	<b>Set for manual weight calibration (weights not included)</b>
<b>9248</b>	<b>Label printer support stand</b>
<b>C100-0051</b>	<b>Label printer Epson TM-220PD</b>

## Description

The standard SOTAX HT 1 measures tablet thickness, diameter or length, width and hardness. It is also equipped with a connection for an optional balance (to record tablet weight) as well as a connection for an optional external digital caliper (to record tablet thickness). The unit is manufactured with high-quality material made of galvanized, powder-coated sheet metal to endure the toughest of production sites. It requires no regular maintenance.

## Features

The SOTAX HT 1 is the only tester available with the patented Auto Alignment™ device to automatically align correctly the tablet for proper measurements. Special jaws are no longer needed for small or oblong tablets. Thickness measurements can also be reported with the test jaws by turning the tablet on its side. The use of an external caliper is also no longer needed. The SOTAX HT 1 is available in a variety of options to meet your specific testing requirements: standard 500 N load cell, optional 1000 N load cell, standard auto-alignment and optional without auto-alignment. The measurement of tablet hardness can be switched from the "Constant Speed" or "Constant Force" principle to match your existing hardness tester. The movement of the jaw speed and force as well as the sensitivity is also adjustable.

The program menu allows the user to define and store methods for various products including predetermined product specifications. Hardness can be measured in any of Newton, Strong Cobb or Kilo pounds. Thickness, diameter and length can be reported in inches or millimeters. Tablet weights can be read in milligrams or grams.

Print-outs of the report and statistics can be sent to a label or standard printer. It is also possible to connect the unit to a PC for reporting to Q-Doc Quality Documentation Software. Q-Doc can be connected to a LIMS and can be networked.

SOTAX has also greatly improved the ease of calibrating. The adjustable calibration date can be set to expire and can be printed out.

## Optional accessories

- ▶ Balance: Mettler, Sartorius or Precisa
- ▶ Digital caliper
- ▶ The Q-Doc Quality Documentation Software with a PC. Q-Doc permits storage of a large number of methods as well as test reports. Customized reports are also possible. Q-Doc is a validated Windows 2000/XP/Vista software which fully complies with 21 CFR Part 11. Q-Doc is also available with LIMS capabilities.

## Validation and qualification

The SOTAX Hardness Tester HT 1 meets all pharmacopoeia requirements. The appropriate qualification documentation (IQ/OQ) can be supplied with each system. Q-Doc software is delivered with IQ documents and a validation certificate. If required, system and software validation and qualification can also be carried out in the customer's laboratory by SOTAX or by SOTAX qualified agents.