

5 Tablet Hardness Tester

Applications

To ensure that pharmaceutical pills and tablets have the ideal casing, a tablet hardness tester is required to accurately analyze the mechanical integrity of a tablet.

Tablet Hardness Tester measures the hardness, thickness, diameter, width and weight, of virtually all tablet shapes including round, oval, oblong and even unique shapes.

It is both USP and EP compliant and offer excellent flexibility and configurability. This robust model removes the need for a thickness gauge, eliminating redundant calibrations and reducing overall testing cost.

USP <1217> Tablet Breaking Force widely used by medical laboratory, pharmaceutical factory and apparatus manufacturers. During tablet formulation and manufacturing it is important to routinely test the tablet breaking force. These tests insure a constant level of high quality results during tablet production.



Features

USP Pharmacopeia and EP Compliant

Compliant with USP <1217> and EP <2.9.8>.

Multi-Parameter Measurements

Our ToronTAB5 Series measure: Weight, Thickness, Diameter, width and Hardness.

LCD Display

Allow detailed method programming without PC software with the large bright LCD interface and user-friendly input keys and menus.

Keyboard

Alpha Numerical and function keys

Sample Throughput

Throughput is approximately 6-10 samples per minute.

Small Footprint

Ideal for laboratories with limited bench space, compact and lightweight design is well suited for portability and use in a production setting.

Built-in Printer

Available with an "Optional" 40 column built-in printer

Sample Throughput

Throughput is approximately 6-10 samples per minute

Adjustment Free Testing Jaws

Requires no adjustment of the test jaws that are designed to suit all tablet shapes and sizes with a unique grooved design for proper alignment of each tablet before testing.

Over Range Alert

Alert will display if the tablet or sample is above the defined hardness range with the option to continue or abort test.

Technical Specifications

Model	ekutab58	ekutab55
Display	Graphic LCD (240 × 128 pixels) Display Thickness, Diameter, width, Hardness and weight.	
Keyboard	Alpha- Numeric Function Keys	
Hardness Range	5 to 800N	5 to 500N
Hardness Accuracy	± 1N	
Diameter, Width and Thickness Range	0.5 -35mm	
Diameter Accuracy	> ±0.05mm	
Jaw Opening	Automatic distance detection	
Measuring Units	Diameter, Width and Thickness in either mm or Inches	
Measurable Units	<ul style="list-style-type: none"> • N (Newton) • KP (KiloPond, 1KP = 9.81N) • Sc (Strong cobb, 1KP = 1.43Sc) 	
Measuring Principles	Linear Speed and Linear Force	
Force Rate	Constant (Linear) Force or Constant (Linear) Speed	
Constant speed setting	10mm/min to 90mm/min	
Constant force Setting	20N/sec to 80N/sec	
Number of Tests for Statistics	Up to 100	
Method Stored	Up to 10	
Delay Adjustment Between the Samples	2 to 10 Seconds	
Calibration Procedure	Requires 10mm Reference Block and 10kg Reference Weight (Certified)	
Calibration Technique	2 point Calibration (More user friendly), 3 point Verification Linearity	
Distance Validation	10mm Certified Block (For Thickness and Diameter)	
Load Cell Linearity	3-Point Linear Calibration with Certified Weight (5, 10, 15kg)	
Load Cell Diagnostic Check	Yes (Check the Load Cell Signal Falls Within Range Before Making any Further Calibration)	
KP Resolution Accuracy	Yes (1/10 or 1/100 Settable)	
Tolerance	Yes (Programmable Tolerances T1, T2, and Plausibility)	
Self-Test	Yes (Auto Check all parameters before start up)	
Fault Localization	Yes (Text Format)	
Load Cell Overload Protection	Yes	
Password Protection	Yes (3 level Password Protection)	
Factory Setting Reset	Yes	
No Tablet Detection	Yes	
Tracking Deletion	Yes	
On Screen Statistic View	Yes	
Interface Ports	USB Type A (2), USB Type B, LAN, RS-232, Parallel Printer and 40 Column Thermal I Mini Dot Matrix printer	
Dimensions	570 × 370 × 360 mm / 22.4 × 14.6 × 14.2inch (W × H × D)	
Weight	7kg / 15.4lbs. (Without Printer) 8kg / 17.6lbs. (With Printer)	
Electrical Power	230V ± 23V, 50/60 Hz or 115V ± 15V, 50/60 Hz	
Standard Configurations	<ul style="list-style-type: none"> ▪ Tablet hardness tester (Electronic unit) ▪ Dust collector ▪ Built-in 40 Column MINI DOT MATRIX Printer ▪ 2 Thermal paper roll, 40 mm ▪ IQ / OQ documents 	