

Reicherter • Wolpert • Wilson

The Tukon 1102 & 1202 Knoop/ Vickers Series Hardness Testers offer a versatile and user friendly solution for a wide range of micro-hardness scale testing. For single scale micro-hardness testing, the Tukon 1102 Tester is equipped with a three position turret which includes one indenter position as well as a 10x and 50x objective. For more demanding applications, the Tukon 1202 Tester is equipped with a six position turret, including two indenter positions as well as 5x, 10x and 50x long working distance objectives. Both units include USB output, eight dial selectable test forces and an innovative touch panel user interface for rapid test method handling and data collection.



· Metallic foils, platings, coatings,

surface layers, laminated metals

· Hardness resulting from welding

or deposition



Technical Specifications

	Tukon 1102	Tukon 1202
Hardness Scales	Vickers and Knoop	
Test Load (gf)	10, 25, 50, 100, 200, 300, 500, 1000 (2000)	
Test Load Selection	Dial with electronic feedback	
Standards Compliant	EN-ISO 6507, ASTM E384 & E92, and JIS	
Test Cycle	Automatic (loading/dwell/unloading)	
Load Duration (Dwell Time)	5 - 99 seconds	
Automatic Turret	3 position; 1 indenter, max. 2 obj.	6 position; 2 indenter, max. 4 obj.
Turret Speed	120° per second	
Statistics	Number, Mean, Standard Deviation, Minimum, Maximum and Range	
Eyepiece Magnification	10x	
Digital Encoder Resolution	0.1µm	
Total Magnification	100x, 500x	50x, 100x, 500x
Standard Objectives	10x, 50x	5x, 10x, 50x (LWD)
Optional Objectives	5x, 10x, 20x, 50x, 100x (LWD)	
Measuring Range	200μm at 10x	
Optical Path	Dual, eyepiece or optional camera	
Camera (Optional)	1.3 MP integrated in pedestal	
Specimen Illumination	LED	
Display	5.7 in (144.8 mm) touch screen display, with tab interface	
Diagonal Length	4-digit (d1, d2)	
Data Output	USB memory stick (csv format), RS232	
Conversions	Brinell, Vickers, Rockwell and Tensile Strength according to ASTM E140, ISO 18625 and GB	
Maximum Specimen Height	130 mm (4.7 in) / with XY-stage 95 mm (3.7 in)	
Depth from Center line	130 mm (5.1 in)	
XY-Stage (Optional)	Size: 100 × 100 mm (3.9 × 3.9 in) Travel Range: 25 × 25 mm (1.0 × 1.0 in)	
Operating Temperature Range	10° to 38°C (50° to 100°F)	
Humidity	10% - 90% non-condensing	
Machine Dimensions (L × W × H)	520 mm (20.4 in) x 230 mm (9.1 in) x 520 mm (20.4 in)	
Weight	40 kg (88.1 lbs)	
Power Supply	110 - 220V AC, 60/50Hz	



Test Blocks and Indenters

Wilson® Hardness offers a wide range of reference blocks. All certified reference blocks will be issued with a certificate traceable to internationally recognized standards, such as UKAS, DKD, or ASTM.

We also offer certified indenters.



Accessories

- · XY-Stage with digital micrometers
- Precision vices, V-blocks and special clamps
- Optional Minuteman automation packages available for complete system integration
- Motorized XY-Stages with onboard virtual joystick for specimen navigation.



Wilson Hardness
Americas • sales@wilson-hardness.com
Asia • asia.sales@wilson-hardness.com
Europe • europe-sales@wilson-hardness.com
www.wilson-hardness.com

We are Local to You



Wilson Hardness is an Instron® ITW Company