

# Wilson<sup>®</sup> Tukon<sup>™</sup> 1102/1202 Knoop/Vickers Hardness Tester

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.

## Load Selection

- 8 dial selectable test forces ranging from 10 grams - 1 kg (2 kg optional)

## Optics

- Optional Hi Res CCD camera system can be integrated inside the frame - no visible wires
- High quality long working distance objectives providing maximum specimen clearance
- LED specimen illumination

## Interface

- Smart UI: Intuitive touch screen interface with hard key buttons for system control
- USB output for easy data-export

## Turret

- Motorized 3 position or 6 position turret with "Shortest Path" program logic control.

## Applications

- Effect of heat treatment
- Hardness depths of carburized layer
- Steels, non-ferrous metals, IC wafer
- Metallic foils, platings, coatings, surface layers, laminated metals
- Ceramics, steels, non-ferrous metals
- Thin plates, metallic foils, plating, miniature objects
- Hardness resulting from welding or deposition



## Specifications

	Tukon 1102	Tukon 1202
Hardness scales	HV, HK	
Main-load	10gf - 1kgf (2kgf optional)	
Test cycle type	Motorized dead weight	
Vertical test capacity	4.1in [130mm] / with XY-stage 3.7in [95mm]	
Horizontal test capacity	5.1in [130mm]	
Objectives	10x and 50x Regular	5x, 10x and 50x Long Working Distance
Total magnification	100x, 500x	50x, 100x, 500x
Indenters	1 indenter position Select Vickers or Knoop	2 indenter positions Select Vickers and/or Knoop
Data-out	USB and RS232	
User interface	Multilanguage 4.7in LCD touchscreen	
XY-stage options	Manual 100 x 100mm stage, 25 x 25mm travel Motorized stage 100 x 100mm travel (with PC software only)	
Camera Software	Options available from basic camera kit to full automatic system. Contact your local Buehler representative for more information	
Standards Compliant	ISO 6507, ASTM E384	
Power	100 - 240VAC, 60/50Hz	



### Test Blocks and Indenters

Buehler® 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.

For a complete listing of consumables, please refer to our Product Catalogue or contact your local Buehler Sales Engineer. Buehler continuously makes product improvements; therefore technical specifications are subject to change without notice.

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AbrasiMet • AbrasiMatic • IsoMet

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