

# ALPHA-MHT-AUTO

AUTOMATED MICROHARDNESS TESTER

## Fully Automated Precision Microhardness Tester

Auto-turret Operation | Auto Hardness Conversion

SPECIFICATION	ALPHA-MHT-AUTO DESCRIPTION
Indenter types	Vickers or Knoop
Objective Magnification	10X and 40X
Indenter Positioning	Automatic (Loading/Dwell/Unloading)
Testing force (gf)	10, 25, 50, 100, 200, 300, 400, 500, 1000
Auto Hardness Conversion	HV, HK, HRA, HRBW, HRC, HRD, HREW, HRFW, HRGW, HRKW, HR15N, HR30N, HR45N, HR15TW, HR30TW, HR45TW, HS, HBW
Testing Range	1 HV ~ 3000 HV
X-Y Anvil Size	4.3 x 4.3-inch (110 x 110 mm)
X-Y Anvil Travel	2 x 1-inch (25 x 25 mm)
Dwell Time	0-60 seconds
Maximum Sample Height	6.7-inches (170 mm)
Throat Depth	5.1-inches (130 mm)
Illumination	Halogen
Dimensions (W x D x H)	13.2 x 22 x 26.6-inch ((335 x 560 x 675 mm))
Electrical Specifications	110V / 220V 50/60 Hz
Weight	115 lbs (52 kg)
Microhardness indentation measurement software (optional)	Built-in
C-Mount camera attachment (optional)	Built-in
Sample leveler (optional)	823-741
Direct Certification (optional)	3rd Party

**2 year warranty**

Limited warranty



### ALPHA-MHT-AUTO Microhardness Tester

Introducing the ALPHA-MHT-AUTO, a fully automated Micro Vickers hardness tester for Vickers and Knoop indenters. With a load range of 10 to 1000 grams and objectives of 10X, 20X, and 40X, it offers unmatched precision and versatility. The touch screen control and CCD image system ensure ease of use, while the motorized X-Y table and automatic focusing streamline testing. Data output is available in Microsoft Word or Excel for seamless documentation.

### Streamline Your Testing Workflow

The ALPHA-MHT-AUTO combines precision and automation, revolutionizing hardness testing. It features an auto-turret for easy switching between indenters, supports a wide load range, and offers adjustable dwell times. Automatic hardness conversion simplifies reporting, ensuring comprehensive and accurate results.

### Built for Durability and Efficiency

Designed for longevity, the ALPHA-MHT-AUTO enhances lab work with its motorized X-Y table and automatic focusing. The touch screen and CCD image system make operation intuitive. Its robust design ensures reliable hardness measurements, making it a valuable investment for any laboratory.

## ACCESSORIES

- Microhardness Pro software
- Certified indenters
- Certified test blocks
- Sample leveler

### Sample Leveler



### C-Mount Camera adapter



### HardnessTest Blocks



### Digital Camera



# MICROHARDNESS PRO Software

Comprehensive Analysis | Accurate Measurement | User-Friendly

### Professional Image Analysis & Reporting

Introducing Microhardness Pro 4.2, a user-friendly software for measuring microhardness and generating easy-to-distribute Excel reports. It supports both gray monochrome (8 bit) and color (24 bit) images, allowing multiple images of any size to be opened and displayed for analysis or comparison. Common formats like BMP, JPEG, TIFF, PNG, GIF, and PSD are supported, and live images can be captured on the same platform. The Windows-based system allows for quick transfer of graphs and charts to other programs like MS Word and MS Excel.

### Accurate Measurement Capabilities

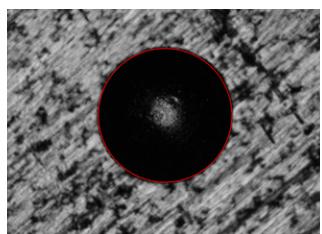
Microhardness Pro 4.2 offers automatic or interactive measurement of Vickers, Knoop, and Brinell indentations, with manual measurement options for live or acquired images. The software includes automated calculation of the best circumference to minimize errors and supports high-resolution 64-bit color image acquisition. It ensures accuracy up to 0.001 µm and provides options for manual measurement when automatic measurement fails.

### Comprehensive Analysis Features

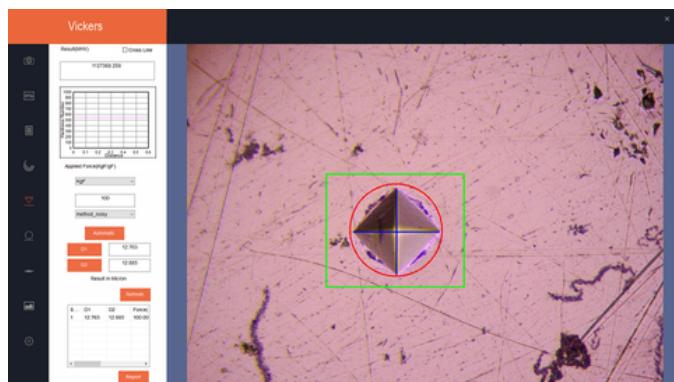
The software supports multi-field analysis and automatic Case Hardness Depth (CHD) measurement. It is equipped to handle advanced analysis requirements, ensuring precise and reliable results. Microhardness Pro 4.2 is designed to meet the needs of professionals requiring detailed and accurate microhardness measurements.



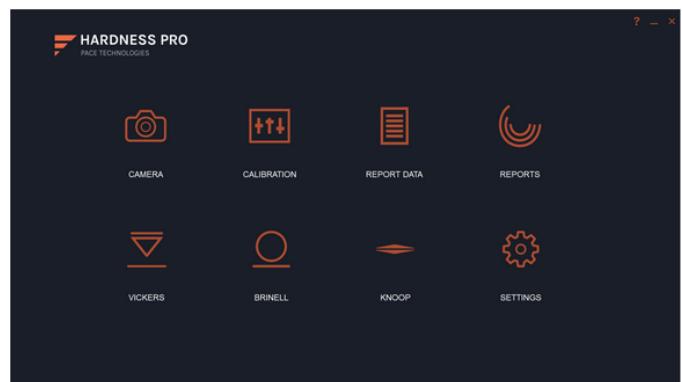
knoop indent



brinell indent



Vickers indent



User Friendly Menu



Machinery directive 2006/42/EC  
RoHS Directive 2011/65/EU



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