

ALPHA-MHT-1000VK

MICROHARDNESS TESTERS

Elevate Precision Hardness Testing

Auto-turret Operation | Versatile Testing Forces

SPECIFICATION	ALPHA-MHT-1000VK DESCRIPTION
Indenter types	Dual Vickers and Knoop
Objective Magnification	10X(observation) & 20 X 40X(2) (measurement)
Indenter Positioning	Auto turret
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 x 4-inch (100 x 100 mm)
X-Y Anvil Travel	1 x 1-inch (25 x 25 mm)
Dwell Time	0-95 seconds
Maximum Sample Height	3.5-inches (90 mm)
Throat Depth	4-inches (100 mm)
Illumination	Halogen
Dimensions (W x D x H)	17 x 19 x 17-inch (425 x 490 x 425mm)
Electrical Specifications	110V / 220V 50/60 Hz
Weight	77 lbs (35 kg)
Microhardness indentation measurement software (optional)	HARDNESS PRO
C-Mount camera attachment (optional)	823-361
Sample leveler (optional)	823-741
Direct Certification (optional)	3rd Party

2 year warranty

Limited warranty



Dual Vickers and Knoop Indenters with individual 40X (2) objectives

Precision Microhardness Testing with ALPHA-MHT-1000VK

The ALPHA-MHT-1000VK is a dual Vickers and Knoop microhardness tester designed for accurate and reliable hardness testing. It offers testing forces from 10 to 1000 grams, with objective magnifications of 10X, 20X, and 40X. The touch screen displays essential parameters such as measuring methods, testing force, indentation length, hardness value, dwell time, and the number of measurements, ensuring precision in every test.

Comprehensive & User-Friendly Design

With a load range of 10-1000 grams, the ALPHA-MHT-1000VK meets diverse testing requirements. The auto-turret and intuitive touch screen controls streamline operations, while the X-Y anvil size of 4 x 4 inches and travel range of 5 x 1 inches provide flexibility in sample positioning. The tester features scales for HV and HK, and automatically converts hardness values to other scales (HRA, HRB, HRC, HV, HK, HBE, etc.). The adjustable dwell times from 5 to 60 seconds and robust design ensure reliable testing.

Durable & Efficient Performance

Built for longevity, the ALPHA-MHT-1000VK is easy to use and maintain. Its sturdy construction and user-friendly interface guarantee consistent and precise results. The tester supports maximum sample heights of up to 3.6 inches and operates at electrical specifications of 110V or 220V, 50/60 Hz. With its compact dimensions and manageable weight, the ALPHA-MHT-1000VK is an essential tool for any laboratory focused on microhardness testing, delivering high-quality measurements with ease and efficiency.

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

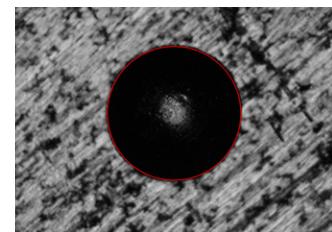
Introducing Microhardness Pro 4.2, a user-friendly software for measuring microhardness and generating easy-to-distribute Excel reports. It supports both gray monochrome (8 bit) and color (24 bit) images, allowing multiple images of any size to be opened and displayed for analysis or comparison. Common 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.



knoop indent

Accurate Measurement Capabilities

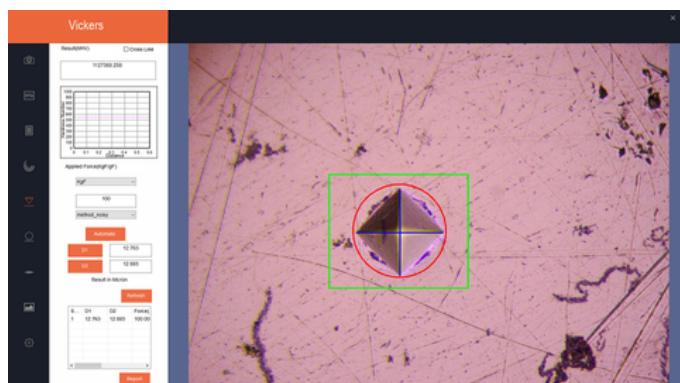
Microhardness Pro 4.2 offers automatic or interactive measurement of Vickers, Knoop, and Brinell indentations, with manual measurement options for live or acquired images. The software includes automated calculation of the best circumference to minimize errors and supports high-resolution 64-bit color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



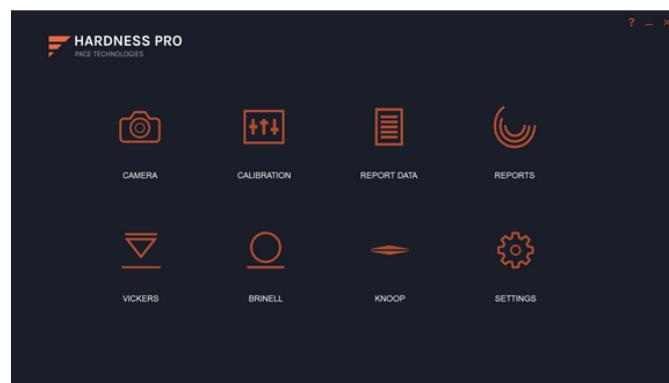
brinell indent

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.



Vickers indent



User Friendly Menu



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



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