

ALPHA-MHT-1000Z

MICROHARDNESS TESTERS

Elevate Precision Hardness Testing

Auto-turret | Built-in Printer | Easy To Use

SPECIFICATION	ALPHA-MHT-1000Z DESCRIPTION
Indenter types	Vickers or Knoop
Objective Magnification	10X (observation) and 40X (measurement)
Indenter Positioning	Auto turret
Testing force (gf)	10, 25, 50, 100, 200, 300, 400, 500, 1000
Auto Hardness Conversion	HK, HRA, HRBW, HRC, HRD, HRGW, HRKW, HR15N, HR30N, HR45N, HR15TW, HR30TW, HR45TW, 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	5-60 seconds
Maximum Sample Height	3.5-inches (90 mm)
Throat Depth	4-inches (100 mm)
Illumination	Halogen
Dimensions (W x D x H)	12.8 x 19 x 21.5-inch (325 x 480 x 545 mm)
Electrical Specifications	110V / 220V 50/60 Hz
Weight	68 lbs (31 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



Advanced Testing Forces & Auto-Turret

The ALPHA-MHT-1000Z is an advanced Micro Vickers hardness testing instrument, ideal for both Vickers and Knoop indenters. Offers variable testing forces ranging from 10 to 1000 grams and features automatic loading, dwell, and unloading. The auto-turret head prevents damage to the indenter, ensuring precise and reliable results.

Efficient Data Management

Equipped with 10X and 40X objectives, the ALPHA-MHT-1000Z allows for detailed observation and analysis. Data can be easily saved and exported to a printer or PC via an RS232 interface cable, making documentation straightforward and efficient.

User-Friendly & Durable Design

This instrument includes a built-in printer, LED speed display, and a robust design that ensures long-lasting performance. The long-lasting Halogen lamp and user-friendly interface make it easy to operate, while its durable construction guarantees reliability and ease of servicing.



ALPHA-MHT-1000Z Control Panel



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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

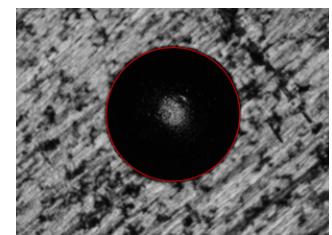
Microhardness Pro 4.2 offers automatic or interactive measurement of Vickers, Knoop, and Brinell indentations, with manual measurement options for live or acquired images. The software includes automated calculation of the best circumference to minimize errors and supports high-resolution 64-bit color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

Comprehensive Analysis Features

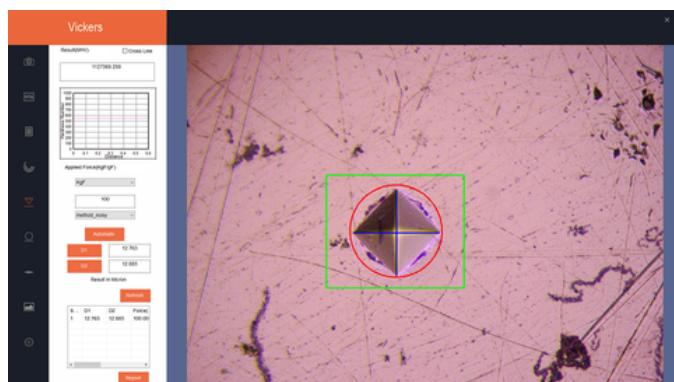
The software supports multi-field analysis and automatic Case Hardness Depth (CHD) measurement. It is equipped to handle advanced analysis requirements, ensuring precise and reliable results. Microhardness Pro 4.2 is designed to meet the needs of professionals requiring detailed and accurate microhardness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



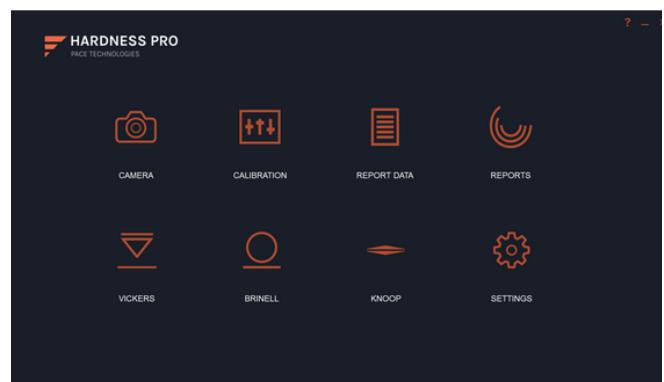
knoop indent



brinell indent



Vickers indent



User Friendly Menu



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

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