

# ALPHA-MHT-2000Z2

MICROHARDNESS TESTERS

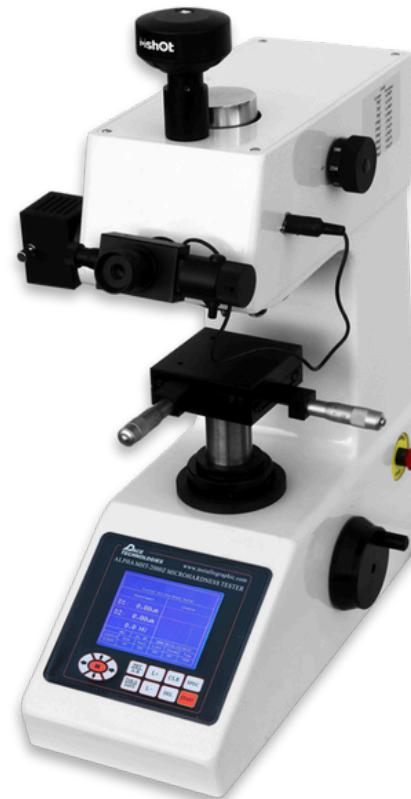
## ELEVATE PRECISION HARDNESS TESTING

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

SPECIFICATION	ALPHA-MHT-2000Z2 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, 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	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	70 lbs (32 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



### Precision Hardness Testing with ALPHA-MHT-2000Z2

The ALPHA-MHT-2000Z2 is an advanced auto turret Micro Vickers hardness tester for Vickers and Knoop indenters. It offers variable testing forces from 10 to 2000 grams, with 10X and 40X objectives and a large LCD screen displaying measuring methods, testing force, indentation length, hardness value, dwell time, and the number of measurements. This ensures accurate and reliable hardness testing for various materials.

### Versatile & User-Friendly Design

With a wide load range of 10-2000 grams, the ALPHA-MHT-2000Z2 caters to diverse testing needs. The auto-turret and touch screen controls simplify operation, while the built-in printer enhances documentation. It features scales for HV and HK and can automatically convert hardness values to other scales (HRA, HRB, HRC, HV, HK, HBW, etc.). The long-lasting Halogen lamp and adjustable dwell times from 5 to 60 seconds ensure efficient testing.

### Durable & Efficient Operation

Built for durability, the ALPHA-MHT-2000Z2 is easy to use and service. Its robust design and user-friendly interface guarantee consistent and precise results. ALPHA-MHT-2000Z2 is an essential tool for any laboratory focused on hardness testing, providing high-quality measurements with ease and efficiency.

ACCESSORIES	Sample Leveler	C-Mount Camera adapter	HardnessTest Blocks	Digital Camera
<ul style="list-style-type: none"> <li>• Microhardness Pro software</li> <li>• Certified indenters</li> <li>• Certified test blocks</li> <li>• Sample leveler</li> </ul>				

## 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

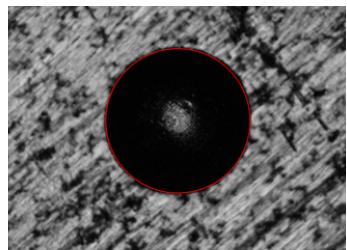
Microhardness Pro 4.2 offers automatic or interactive measurement of Vickers, Knoop, and Brinell indentations, with manual measurement options for live or acquired images. The software includes automated calculation of the best circumference to minimize errors and supports high-resolution 64-bit color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

### Comprehensive Analysis Features

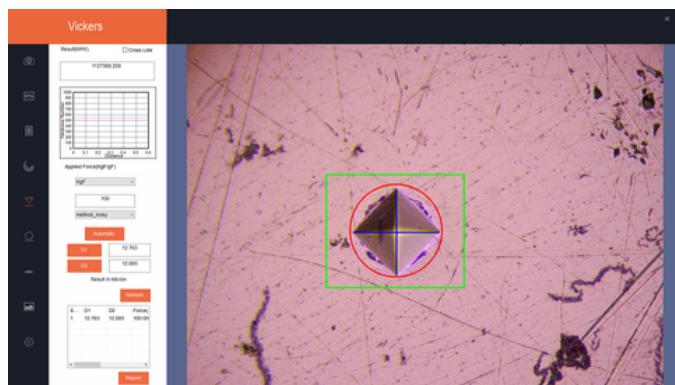
The software supports multi-field analysis and automatic Case Hardness Depth (CHD) measurement. It is equipped to handle advanced analysis requirements, ensuring precise and reliable results. Microhardness Pro 4.2 is designed to meet the needs of professionals requiring detailed and accurate microhardness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



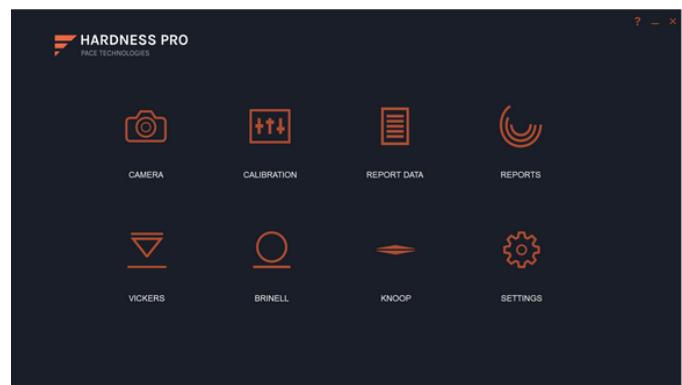
knoop indent



brinell indent



Vickers indent



User Friendly Menu



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



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