

ALPHA-MHT-AUTO
Fully Automated
Microhardness
Tester

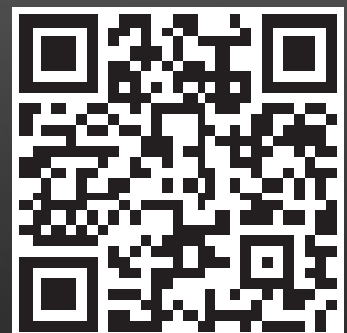
Automated MICROHARDNESS TESTER
(ALPHA-MHT-AUTO)

ALPHA-MHT-AUTO is a fully automated Micro Vickers hardness testing instrument for Vickers and Knoop indenters (Part No. ALPHA MHT-AUTO). Features include variable testing forces (10, 25, 50, 100, 200, 300, 500, and 1000 gram load), 10X, 20X and 40X objectives, touch screen control, CCD image acquisition system, motorized X-Y table, automatic focusing and automatic measurement. The hardness-depth data output is in Microsoft Word or Excel.

- Vickers or Knoop
- Auto-turret
- Load range 10-1000 grams
- Scales (HV, HK)
- Dwell time 5-60 seconds
- Auto hardness conversion to other scales (HRA, HRB, HRC, HV, HK, HBW, etc)
- Robust and durable design

Technical Specifications:

Feature	ALPHA-MHT-AUTO
Indenter types	Vickers or Knoop
Objectives	10X and 40X
Indenter positioning	Auto turret
Testing Force (gf)	10,25,50,100,200,300,400,500,1000
Indenter measurement	Digital
Auto Hardness Conversion	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBW
Testing Range	1 HV ~ 3000 HV
Table Size	4.3 x 4.3-inch (110 x 110 mm)
Motorized X-Y Test Table Resolution	0.0001-inch (0.002 mm)
Maximum Height of Specimen	7.3-inch (185 mm)
Dwell Time	5-60 seconds
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)



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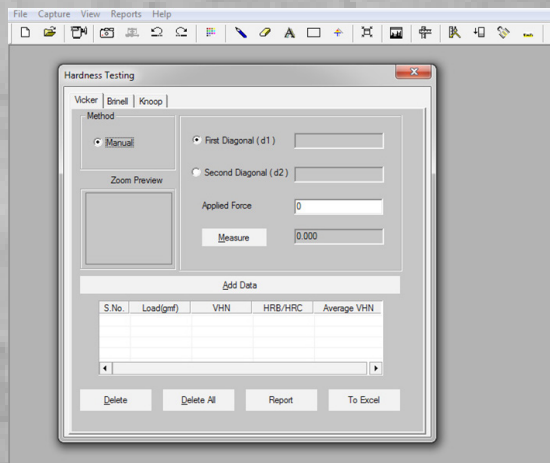
Microhardness Tester Accessories:

Description	Part Number
Vickers indenter	823-401
Knoop indenter	823-411
10X eyepiece	823-341
10X Objective	823-311
40X Objective	823-331
X-Y anvil	823-701
Dust cover	823-902
Sample leveler (optional)	823-741
Digital camera (optional)	MD50-T
Camera adapter (optional)	823-361
Microhardness indentation measurement software (optional)	Microhardness Pro

MICROHARDNESS PRO Software

• Microhardness Pro 4.2 is an easy to use image analysis software for measuring microhardness and for generating easy to distribute Excel reports. It is a single screen Windows based system.

• The Microhardness Pro 4.2 software can handle both gray monochrome (8 bit) and color (24 bit) images. Multiple images of any size can be opened and displayed on the screen for analysis or comparison. The software supports the most common formats like BMP, JPEG, TIFF, PNG, GIF and PSD. Live images also can be observed and captured on the same platform. Since the system is in a Windows environment, graphs and charts displayed on the monitor can be quickly transferred into other Windows based programs such as, MS Word, MS Excel or any other commercial Windows based software for the purpose producing reports and presentations.



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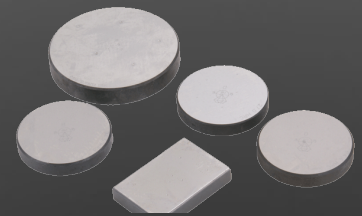
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Sample Leveling Fixture



C-mount Camera Adapter



Hardness Test Blocks



Machinery directive 2006/42/EC
 Low Voltage Directive 2006/95/EC
 Electromagnetic Compatibility directive 2004/108/EC