



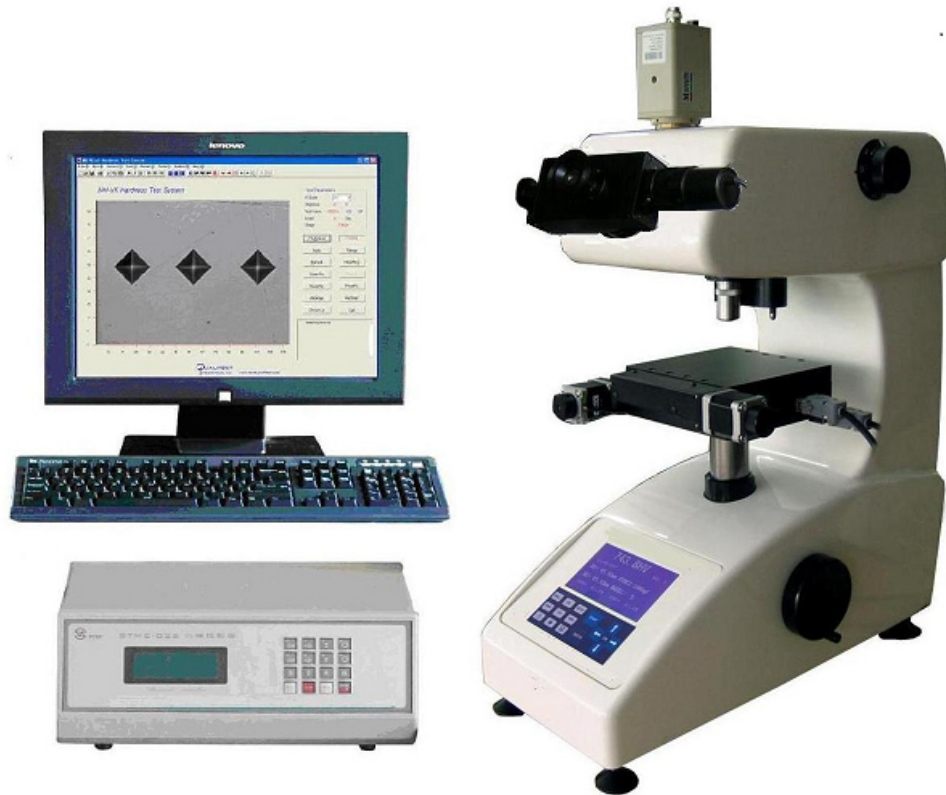
## DIGITAL MICRO HARDNESS TESTER AUTO MOTION STAGE

### STANDARD

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ISO 6507, ASTM E384, JIS B7734

RoboTest RHD-1000/2000ASM Micro Hardness Tester with MH\_VK\_dS Picture Analysis System equipped with computerized measuring system, with auto-motorized turret of precision positioning. Tester measures HV hardness or HK hardness automatically or manually. The machine with the friendly menu combining with the convenience measuring way, reduced the artificial error, increase the accuracy of the measurement





## FEATURES

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- Variety forms of Test report, (in simple form, in Word form and in Excel form).
- The case depth curve is obtained easily.
- Hardness conversion between 15 hardness scales is provided Based on different materials and in accordance with GB (ISO) and ASTM.
- Hardness correction on curved surfaces (spherical, cylindrical, either convex or concave).
- Hardness calibration with Standard digital scale or hardness block.
- Picture of user-specified magnification can be provided easily.
- With a Step-motion stage of high accuracy.
- Both the tester and the Step-motion stage are controlled by the MH\_VK\_dS software.

## TECHNICAL SPECIFICATION

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Model	RHD-1000ASM	RHD-2000ASM
Main tester	Digital	
Lens/Indenter switch	With Motorized Turret	
Loading mode	Program-controlled application, duration and removal of load	
Test force	9.807, 4.903, 2.942, 1.961, 0.9807, 0.4903, 0.2452, 0.0981 N  1000, 500, 300, 200, 100, 50, 25, 10 gf	19.61, 9.807, 4.903, 2.942, 1.961, 0.9807, 0.4903, 0.2452, 0.0981 N  2000, 1000, 500, 300, 200, 100, 50, 25, 10 gf



Duration time	5 – 60 sec selectable, In step of 5 sec.
Hardness Range	HV : 10-4000 (Direct measurement)
Scale conversion	HV, HB, HK, HRA, HRB, HRC, HRD, HRF, HS, HR15N, HR30N, HR30N, HR15T, HR30T, HR45T
Data output	RS-232 Port
Measuring Microscope	Objective: 40x; 10x, Eyepiece: 15x Total: 600x; 150x
Min. detection	0.025 $\mu$ m
Optical path	Measurement / CCD camera switch
Measuring and reading mode & Functions	<p>Auto measurement, Picture analysis, Print out or save in files the measured data, image, graphs and layer hardness gradient graph.</p> <p>Test report in general form, in Word form and in Excel form.</p> <p>Hardness conversion between HV, HB, HK, HS, HRA, HRB, HRC, HRD, HRF, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, in accordance with GB (ISO) and ASTM.</p> <p>Hardness calibration with Standard digital scale or hardness block.</p> <p>Hardness correction on spherical or cylindrical test piece surface.</p> <p>Picture of user specified magnification can be provided easily.</p>



Auto X-Y Stage	<p>Dimensions : 120× 100 mm Travel range : 50×50 mm</p> <p>Resolution : 0.0001 mm Accuracy: 0.5 um</p> <p>Control : with controller or MH_VK_dS test software</p> <p>Real-time display the stage's position</p> <p>Single-point or auto multi-point indentation</p> <p>Equal-interval continuous indentions or Customized-intervals continuous indentions</p>
Max. test height	85/95 mm
Main Standard Accessories & Attachments	<p>Objective 40x,10x (Installed on tester)</p> <p>Vickers &amp; Knoop indenters (Installed on tester)</p> <p>Standard hardness block (700HV &amp; 400HV each)</p> <p>Sheet specimen clamp</p> <p>Thin cylinder clamp</p> <p>Parallel-jaw vice</p> <p>Computer with MH_VK_dS hardness test software installed</p> <p>LCD Display</p> <p>CCD Camera with adapter</p> <p>MicroDog for security</p> <p>Control box for XY Step-motion Stage</p>
Options	Vickers indenter, Knoop indenter, 20x objective
OS	Windows 7
Power supply	110V/220 VAC, 60 Hz