

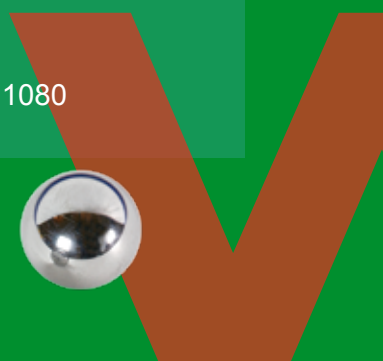
UNIVERSAL HARDNESS ZOOM-TESTOR 1000 SERIES™

Motorized closed loop system with internal video camera and zoom objective

Stable and high precision machine for all applications Vickers, Brinell, Rockwell, Ball Indentation Hardness etc. Motorized controlled load application and optical evaluation via integrated video imaging system. Big LCD colour display. 7-step zoom objective - simply amazing. All information on one displayed page only. 200 pre programmable test definitions. Extremely powerful and incredibly easy to use. Customized software applications available.

		1010	1020	1040	1050	1070	1080
Load	1-250kgf	■	■				
Load	3-750kgf			■	■		
Load	30-3000kgf					■	■
Brinell	ISO6506	■	■	■	■	■	■
Vickers	ISO6507	■	■	■	■	■	■
Rockwell	ISO6508		■		■		■
Brinell depth	HBT		■		■		■
Vickers depth	HVT		■		■		■
Ball indentation hardness	ISO2039T1		■		■		■
Motor zoom	1:7	■	■	■	■	■	■
Test height	300mm	■	■	■	■		
Test height	350mm					■	■
Throat depth	250mm	■	■	■	■	■	■

Hardness scales	Brinell, Brinell depth, Vickers, Vickers depth, Knoop, Rockwell, Superficial Rockwell, Ball indentation hardness.
Standards Conform to	DIN-EN-ISO 6506,6507, 6508, ASTM and JIS and ISO 2039-1
Test loads	Brinell 1 - 3000 kg (see above table for models) Vickers/Knoop 1- 100 kg (see above table for models) Rockwell 15- 30- 45- 60- 100- 150 kg (see above table for models) Macro-Rockwell (HMR) - HMR5/250 Vickers Depth Measurement HVT 30 - 10 Brinell Depth Measurement HBT 2,5/62,5 - 2,5/187,5 - 5/250
Indenter types optional	Brinell Ball 1 - 2,5 - 5 - 10mm Vickers Diamond cone 136° Rockwell Diamond cone 120°, Ball 1/16" - 1/8" - 1/4" - 1/2"
Optics	10-step zoom objective, range 55x – 352x
Objectives	Interchangeable 2,5x - 4x - 10x - 20x - total range 28x - 1798x
Scale resolution	better than 1 micron
Display	Advanced graphical display, Integrated hardness calculator, determination of hardness values for all procedures, statistics functions, data transfer
Illumination	Infinity adjustable brightness of light
Test load application	Electromotor closed-loop system, with load cell
Test Load selection	Automatic, via programmable digital panel
Load duration	0.1- 25 sec
Data output	RS232 (bidirectional) serial interface to pc, Parallel port to Printer
Specimen accommodation	Maximum test height 310mm (350mm) , maximum throat 250mm
Specimen access	External surfaces, cylindrical surfaces down to 3mm diameter
Power supply	230V, 50Hz (50VA) (110V on request)
Machine dimensions	Width 230mm, depth 725mm, height 1200mm Width 390mm, depth 920mm, height 1290mm for 1070 & 1080
Machine net weight	App. 160kg (190kg for 1070 & 1080)



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Accessories

Check with your WOLPERT agent for specified packages included with the hardness tester as standard delivery.

Check latest accessories update on: www.wolpertgroup.com

- Motorised spindle (all models)
- Hardwin Basic SPC software
- Hardwin EHT/RHT hardness depth software
- Extended load step for all models
- Printer inkjet with cable
- X/Y stage manual 120x120mm
- Motorised X/Y stage 200x200mm
- Revolver head for 2 objectives and 4 indenters
- Full automatic hardness determination software, by image processing
- Ring light for improved low hardness readings
- Objective 10x (optional for up to 1000kgf)
- Objective 2.5x (standard for models 1070/1080)
- Objective 20x (option for up to 30kgf)
- Objective 4x (standard for models 1010/1020/1040/1050)
- Indenter shaft adapter diameter 6.35 to 8mm
- Brinell indenters with carbide ball 1 - 2.5 - 5.0 - 10mm
- Rockwell diamond indenter
- Rockwell indenter with carbide ball 1/16" - 1/4" - 1/8"
- Vickers indenter for macro or micro loads
- Knoop indenter
- V-anvil 1-4mm
- V-anvil 3-10mm
- V-anvil 7-20mm
- V-anvil 20-60mm
- V-anvil 50-150mm
- V-anvil 150-300mm
- V-anvil 300-500mm
- Testing table 400x600mm
- Cup anvil with 10mm support
- Cup anvil with 10mm with V-shape support
- Spot anvil 10mm
- Testing table diameter 235mm; screw mount
- Testing table 250x400mm with vice
- Testing table diameter 325mm; screw mount
- Testing table diameter 80mm swivel ball
- Testing table diameter 80mm
- Testing table with diamond inlay
- Clamping device large or small
- Test height accommodation length decreased height option
- Test extended height option for 250kgf tester to 560mm
- Test extended height option for 3000kgf tester to 700mm
- Test extended height option for 3000kgf tester to 800mm
- Dust cover for ZoomTestor
- Cabinet worktable heavy duty

