



Wilson® Universal Hardness Tester UH250

Brinell, Vickers and Rockwell Testing

The UH250 Universal Hardness Tester contains all standard hardness testing methods between 9.81 - 2452 N. The system is designed with high-quality mechanical components with closed-loop technology and our versatile Windows® evaluation software WIN-Control. The integrated camera with Zoom module allows for a fast, accurate, and user-independent Vickers or Brinell measurement.

Force Application

- Special closed-loop system for quick and highly-accurate test results

Original Reicherter Clamping

- Specimen clamping with 320kgf (testing without clamping also possible)
- Provides perfect Rockwell readings by overcoming any deflection
- Provides stability for large test pieces

Software

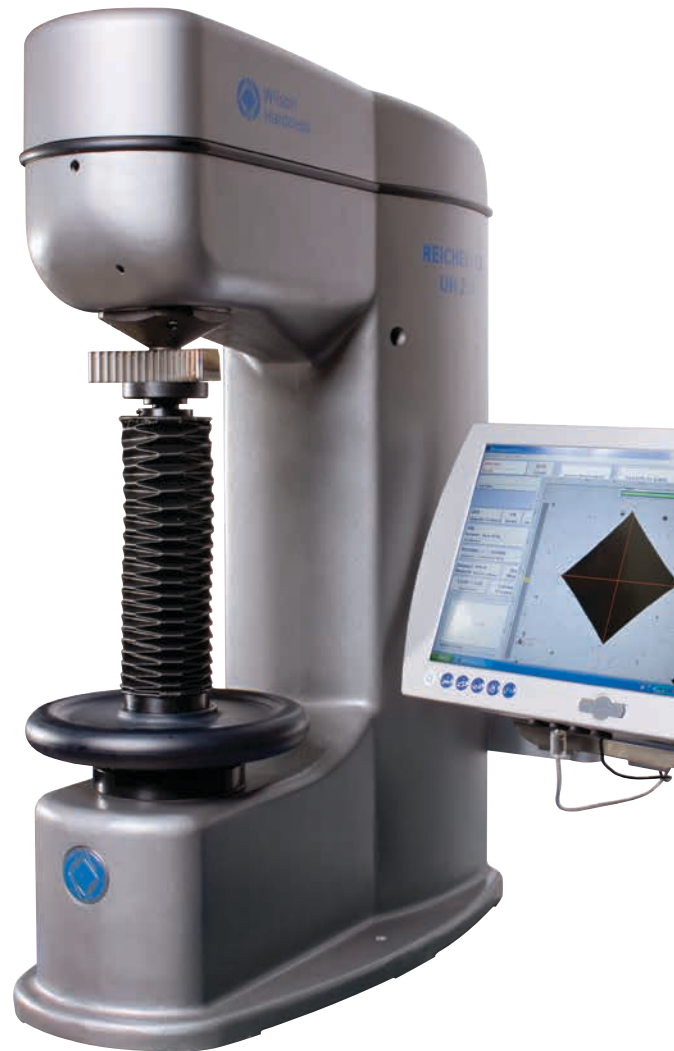
- Fully automatic evaluation of the indent
- Integrated zoom module
- Easy administration of test programs

Optics

- Only 1 objective lens with zoom (no change of objective lens necessary)

Applications

- Hardness from castings and forgings
- For flat and cylindrical work pieces
- Wide application within the automotive and aerospace industry
- Laboratory and workshop testing
- Sample testing or quality control testing
- Steels, non-ferrous metals
- Cemented carbide, ceramics, stainless steels



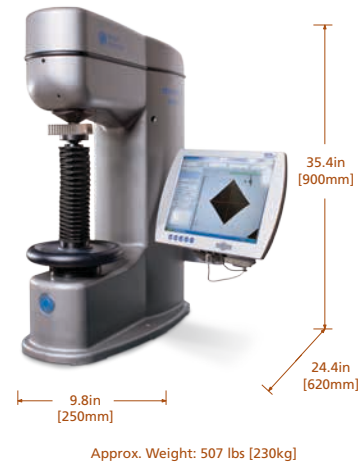
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Solutions for Materials Preparation, Testing and Analysis

Specifications

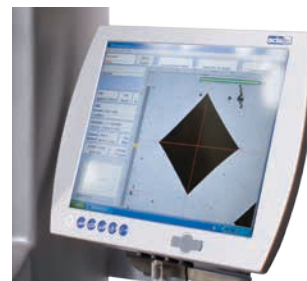
UH250

Hardness Scales	Brinell, Vickers, Rockwell, Super-Rockwell (HB, HV, HR)
Optics	5 mega-pixel camera
Objectives	Zoom module and autofocus
Display	IPC-touchscreen or PC screen
Standards Compliant	ISO 6506, ISO 6507, ISO 6508, ISO 4545, ASTM E18, ASTM E92, ASTM E10 and JIS
Test Load Type	Loadcell closed-loop control system
Test Cycle	Automatic and indent evaluation
Test Loads	1, 3, 5, 10, 15, 15.625, 20, 30, 31.25, 50, 60, 62.5, 100, 125, 150, 187.5, 250 kgf
Vickers Test Procedures	HV 1, 2, 3, 5, 10, 20, 30, 50, 100
Brinell Test Procedures	HB1: 1, 2.5, 5, 10, 30
	HB2.5: 6.25, 15.625, 31.25, 62.5, 187.5
	HB5: 25, 62.5, 125, 250
	HB10: 100, 250
Rockwell Test Procedures	A, B, C, D, E, F, G, H, K, L, M, P, R, S, V, Bm, Fm, 15N, 30N, 45N, 15T, 30T, 45T, 15W, 30W, 45W, 15X, 30X, 45X, 15Y, 30Y, 45Y, 30 TM, HMR 5/25
	Brinell Balls: 1, 2.5, 5, 10mm Vickers Diamond: 136° Rockwell: Diamond Cone 120°, Balls: 1/16in, 1/8in, 1/4in, 1/2in
Indenter (optional)	
Load Duration	0.1 - 255 seconds
Data Output	PC Software
Specimen Accommodation	Maximum test height 320 mm, maximum throat 215 mm
Specimen Access	External surfaces
Power Supply	100 - 240VAC, 60/50Hz



Test Blocks and Indenters

High quality Wilson® hardness standardized test blocks from Buehler® are calibrated in compliance with ASTM E384, ASTM E18, ASTM E10, ISO 6507, ISO 6508, or ISO 6506 where appropriate. Rockwell C standardized test blocks are directly NIST traceable. All calibrations and certifications are performed in an ISO/IEC 17025 compliant facility.



Accessories

- NC-controlled X/Y coordinate table
- Standard PC or embedded solution
- Wide range of anvils

Please ask for a full accessories catalog

For a complete listing of consumables, please refer to our Product Catalogue or contact your local Buehler Sales Engineer. Buehler continuously makes product improvements; therefore technical specifications are subject to change without notice.

Sectioning AbrasiMet • AbrasiMatic • IsoMet	Mounting SimpliMet	Grinding & Polishing EcoMet • AutoMet • MetaServ	Imaging & Analysis OmniMet	Hardness Testing Wilson®
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