



Wilson® UH751/UH3001

Brinell, Vickers, and Rockwell Testing

The UH 750 / UH 3000 Series completes the new generation of hardness testers. Available in two versions with maximum test forces to 750 kg and 3000 kg respectively. Due to its sturdy design, it is a reliable machine and suitable for rough workshop conditions. This cost-effective, innovative hardness tester features extremely fast testing cycles and a newly developed changer magazine to hold several indenters and lenses. The operator can test to a variety of test methods without the need for manual indenter/objective changes.

Interface

- Touch panel IP 65

Turret

- Integrated vertical positioned turret
- Eight positions for objectives and indenters

Optics

- Auto-focus for full-auto testing and digital zoom
- 5 megapixel camera that covers a wide magnification range

Test Cycle

- Test head featuring fully-automatic test cycles

Sample Positioning

- Manual spindle

Specimen Support

- Extra large heavy duty T-Slot Table

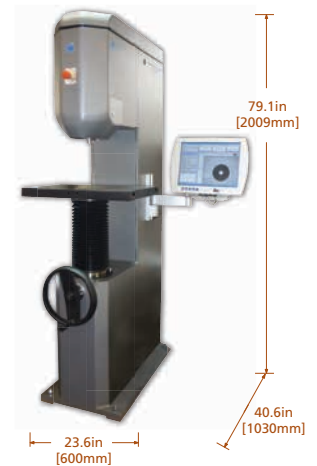
Applications

- Hardness of castings and forgings
- Flat and cylindrical work pieces
- Various applications within the automotive and aerospace industry
- Laboratory and workshop testing
- Product quality control testing
- Steels, non-ferrous metals, cemented carbide, ceramics, stainless steels

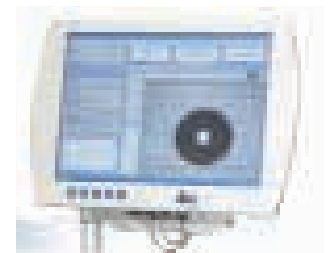


Specifications

	UH751	UH3001
Test Procedures	HV 3 - HB 5/750	HV 20 - HB 10/3000
Total Test Force	3kp - 750kp 29.42N - 7335N	20kp - 3000kp 196.1N - 29420N
Load Application	Closed-Loop Control	
Dwell Time	1 - 99 Seconds	
Optics	5 mega-pixel camera with zoom & autofocus	
Turret	Vertical built-in automatic turret - 8 positions	
Objectives (Optional)	2x for Range 0.48 - 6.0mm 5x for Range 0.19 - 3.0mm 10x for Range 0.10 - 1.5mm	
Indenter (Optional)	Brinell Balls: 2.5, 5, 10mm Vickers Diamond: 136° Rockwell: Diamond Cone: 120°, Balls: 1/16in, 1/8in, 1/4in, 1/2in	
Optical Measurement	Manual or Auto-Measurement of Indent Images	
Brinell Test Procedure	HB2.5: 6.25, 15.625, 31.25, 62.5, 187.5 HB5: 25, 62.5, 125, 250, 750 HB10: 100, 250, 500, 1000	HB2.5: 31.25, 62.5, 187.6 HB5: 25, 62.5, 125, 250, 750 HB10: 100, 250, 500, 1000, 3000
Vickers Test Procedure	HV3, HV5, HV10, HV20, HV30, HV50, HV100	HV20, HV30, HV50, HV100
Rockwell Test Procedure	A, B, C, D, E, F, G, H, K, L, M, P, R, S, V, 15N, 30N, 45N, 15T, 30T, 45T	A, B, C, D, E, F, G, H, K, L, M, P, R, S, V
Display	Touch Panel IP65 Protected	
Data Output	PC Software	
Spindle	Manual Handwheel	
Maximum Specimen Height	18.5in [470mm] (570mm with spindle floor hole)	
Depth from Center line	11.8in [300mm]	
Operating Temperature Range	10° to 380°C (50° to 100°F)	
Humidity	10% - 80% Non-Condensing	
Power	230V, 50/60Hz	



Approx. Weight: 1874 lbs [850kg]



Accessories

Mechanical:

- Machine frame
- Heavy-duty test table 600× 400 mm
- Vertical turret with 8 positions

Electrical:

- 5 megapixel digital camera with autofocus
- LED lighting system
- Control cabinet with Siemens S7-300 controller
- PC system
- Windows® software WIN-Control
- Digital zoom



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.

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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