

The Wolpert UH930 Universal Hardness Tester, with its user-friendly operator panel, displays hardness values for all common hardness test procedures. The closed-loop load system eliminates overshoot and combines a fully-automatic controlled test cycle with a broad load range from 1 - 250 kgf. The quick access buttons allow operators access to 99 different test programs for all hardness scales (HR, HB, and HV). In compliance with ISO standards, each program can be set up with user-defined test parameters including test force, application time, conversion, and shape correction. The intuitive user interface and one-touch operation ensures an efficient and reliable test process, while the interchangeable objectives, which range from 20X - 140X, allows for testing a variety of applications.



Applications

- Hardness from castings and forgings
- For flat and cylindrical work pieces
- Meets a variety of applications 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



Technical Specifications

Hardness Scales	Brinell, Vickers, Rockwell, Super-Rockwell
Optics	High-precision optics, screen diameter 135 mm
Objectives	Interchangeable 20X, 44X, 70X, 140X magnification
Scale resolution	Incremental scale/better than 1 micron
Display	Integrated hardness calculator, determination of hardness values for all procedures, statistics functions, data transfer
Standards	Conforms to ISO 6506, ISO 6507, ISO 6508, ASTM E18, ASTM E92, ASTM E10, and JIS
Test Load Type	Loadcell closed-loop control system
Test Cycle	Automatic
Test Loads	1, 2.5, 3, 5, 6.25, 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
Indenter Types (optional)	Brinell Balls: 1, 2.5, 5, 10 mm Vickers Diamond: 136° Rockwell Diamond Cone: 120° Balls: 1/16 in, 1/8 in, 1/4 in, 1/2 in
Load Duration	0.1 - 255 seconds
Data Output	RS-232 serial interface (to printer or PC)
Specimen Accommodation	Maximum test height 300 mm, maximum throat 150 mm
Specimen Access	External surfaces
Cylindrical Surfaces	Down to 3 mm (0.1 in) diameter
Machine Dimensions (L x W x H)	500 mm (19.68 in) x 500 mm (19.68 in) x 1018 mm (40.70 in)
Machine Net Weight	200 kg (440 lbs)
Power Supply	220V / 50Hz (110V on request)



Test Blocks and Indenters

Wilson® Hardness offers a wide range of reference blocks. All certified reference blocks are issued with a traceable NVLAP, DKD or UKAS certificate according to internationally recognized standards, including ISO and ASTM.

We also offer certified Brinell, Vickers, and Rockwell indenters.



Accessories

- Objectives for 20X, 44X, 70X total magnification (140X is in standard delivery)
 - Testing tables and XY-Stages
 - Precision vices, V-blocks and special clamps
 - Clamping and protection attachment
 - Software Solutions for demanding applications
- Please ask for a full accessories catalog.



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