The Wilson VH3100 Automated Vickers/Knoop Hardness Tester is a revolutionary precision instrument that boasts a powerful load application range of 50gf - 10kgf, patent pending safety collision technology, and the most advanced optics in the industry. This unique combination allows the Wilson VH3100 to meet virtually any Vickers/Knoop testing requirement. Innovative digital zoom stepping provides the widest magnification range ever provided on a hardness tester and the long working distance objectives and high accuracy automated stage provide the basis for a truly powerful test system. All components and software are completely designed, manufactured, and integrated by Wilson Hardness.

Software Features

- Touch friendly intuitive user interface
- CHD analysis
- Comprehensive graphing
- Automatic quit value
- Return and re-measure capabilities
- Data export to Excel or PDF
- Automatic test, measure, save, and export
- Automatic image analysis
- Automatic image focusing
- Variable brightness, contrast, and illumination
- Three level password protected user system
- Traverse interrupt and resume
- Virtual joystick for motorized sample traversing

Features

- \bullet Incredibly fast motorized stage with 5 μm or better accuracy
- Imbedded PC control and external USB ports
- Microscope quality optics, long working distance objectives
- Separate Monitor or integrated Touchscreen

Applications

- Steels, non-ferrous metals, IC wafer
- Thin plastics, metallic foils, platings, coatings, surface layers, laminated metals
- Effect of heat treatment
- Hardness depths of carburized layer
- Cemented carbide, ceramics, steels, non-ferrous metals
- Thin plates, metallic foils, plating, miniature objects
- Hardness resulting from welding or deposition



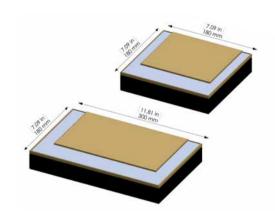


Specifications



Approx. Weight: 82.7 lbs [37.5kg] without monitor

Scales	HV, HK, HB
Test Load	50gf - 10kgf
Test Load Accuracy	±1.5% < 200g, ±1% > 200g
Force Application	Load Cell
Dwell Time	1 - 999 seconds
Standard Compliance	ASTM E384 & E92; ISO 6507, 9385, 4546
Magnification Range	30X - 2000X with digital zooming
Light Source	LED
Humidity	10 - 90% non-condensing
Power	370VAC - 100-240VAC, 50/60Hz
Weight	82.7 lbs [37.5kg] without monitor



Two Stage Options

Accessories

- Knoop and Vickers indenters
- Long working distance objectives 10X, 20X, 40X, 50X, 100X
- Motorized XY-Stage
- ASTM / ISO compliant hardness reference test blocks
- Universal clamping and leveling device (UCLD)
- Overview camera

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



Overview camera

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

Wilson®







BUEHLER Worldwide Headquarters 41 Waukegan Road Lake Bluff, Illinois 60044-1699 USA P: (847) 295-6500 www.buehler.com | info@buehler.com BUEHLER Germany info.eu@buehler.com

BUEHLER France info.fr@buehler.com

BUEHLER United Kingdom info.uk@buehler.com

BUEHLER Canada info@buehler.ca

BUEHLER Asia-Pacific info@buehler.com.hk

BUEHLER China china@buehler.com.hk