



Wolpert Wilson® Instruments 432 SVD | 452 SVD

Vickers Hardness Testers from HV0.3 to HV50

The 432 SVD and 452 SVD Vickers and Knoop testers are versatile, user-friendly, and provide an affordable, reliable solution for accurate Vickers and Knoop hardness scale testing, both for quality assurance or metallurgical research. The 432 SVD and 452 SVD have an automatic turret and comes equipped with crisp optics that have a total magnification of 100x and 200x. For easy sample mounting, there is a wide range of clamps and accessories available. Upgrade to the Minuteman ELT™ CCD Camera and software packages for reliable, user independent operation.



Applications

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

Wolpert Wilson® Instruments 432 SVD | 452 SVD

Vickers Hardness Testers from HV0.3 to HV50

Technical Specifications

Vickers Scales	432: HV0.3, HV0. 5, HV1, HV3, HV5, HV10, HV20, HV30 452: HV1, HV2, HV3, HV5, HV10, HV20, HV30, HV50
Test Load	432: 0.3 -0.5- 1- 3- 5- 10- 20- 30kgf 452: 1- 2- 3- 5- 10- 20- 30 - 50kgf
Test Force Selection	Dial
Accuracy	Conforms to EN-ISO 6507, ASTM E384 & E92 and JIS
Load Control	Automatic (loading/dwell/unloading)
Load Duration (Dwell time)	5 to 99 seconds
Turret	Automatic
Eyepiece Magnification	10x
Digital Encoder Resolution	0.1µm
Objectives	10x, 20x (40x optional)
Total Magnification	100x, 200x (for measurement)
Measuring Range	100x: 800µm, 200x : 200µm
Optical Path	2-way switchable : eyepiece/camera
Light Filter	Green and Blue
Light Source	Halogen lamp
Display	Length of diagonal, hardness converted value, test force
Hardness Value	5-digit
Diagonal Length	4-digit (D1, D2)
Data output	Built-in printer, RS232
Statistics	Number, Average, Standard deviation, Range
Conversion	Brinell, Rockwell, Superficial Rockwell, Tensile
Maximum Specimen Height	210 mm (8.26")
Depth from the Centerline	160 mm (6.29")
XY Stage Dimensions	100 x 100 mm (3.9")
XY Stage Travel Range	25 x 25 mm (1")
Minimum Reading	0.01 mm
Operating Temperature	Range: 10 to 38° C (50 to 100° F)
Humidity	10% to 90% non-condensing
Dimensions	566 mm (20.3") x 300 mm (11.8") x 710 mm (28")
Weight	55 kg (121 lbs)
Power Supply	110-220V AC, 60/50 Hz



Test blocks and indenters

Wolpert Wilson Instruments offer 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 & ASTM.

We also offer certified Vickers and Knoop indenters.



Accessories

- Objectives 10x, 20x, and 40x
- XY-stage with analog or digital micrometers
- Precision vices, V-blocks and special clamps
- Minuteman ELT™ PC-controlled Camera system
- Motorized XY-stages

Please ask for a full accessories catalog



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We are Local to You



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POD_432_rev2_0909