

Product Information

ZHV1-m/ZHV2-m - Manual Micro Vickers Hardness Tester



Range of applications

Micro Vickers testing according to ISO 6507 and ASTM E92, UKAS accredited.

Special Characteristics

- Capable of performing tests using forces:
ZHV1-m: 10, 25, 50, 100, 200, 300, 500, 1000 gf.
ZHV2-m: 25, 50, 100, 200, 300, 500, 1000, 2000 gf.
- Automatic turret allows one touch operation when changing between indenter and lens position.
- Fully automatic timing cycle, eliminates operator influence of the dwell times.
- Test scale designation on display.
- Manual load/scale change mechanism.
- HK Knoop hardness, Knoop indenter is optional.
- Fully CE compliant.
- RS232 C and Centronics data output.
- Standard statistics are integrated.
- Dead weight load application provides long term test force stability.
- 256 test data storage facility.
- Variable dwell times, 5-99 seconds.
- Automatic conversion to alternative scales, eliminating the requirement for conversion tables.
- Visual indication of "out of tolerance" results, eliminating operator decisions.
- Full range of standard accessories.
- Design of special purpose fixtures available.
- Optional upgrade for CCD camera adoption to measure with PC-System and *testXpert*® test software.
- Supplied as standard with manual X-Y stage and precision component vice.
- Horizontal and vertical indentation diagonal measurements displayed.

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Order item	ZHV1-m H019.ZHV1.00	ZHV2-m H019.ZHV2.00	Unit
Micro Vickers test forces	10, 25, 50, 100, 200, 300, 500, 1000	25, 50, 100, 200 300, 500, 1000, 2000	gf gf
Display	Dot Matrix Graphics LCD, Back Lit		
Data Entry	Touchscreen		
Resolution μ	0.1, e.g. 0.2468 mm		
Resolution HV	0.1, e.g. 527.4 HV 10		
Calibration	ISO 6507, ASTM E 92		
Standard Specimen Accommodation	Vertical: 95		mm
	Throat: 100		mm
Services	3 A single phase, 240/120 V switchable		
Machine Dimensions (Height x Width x Depth)	500 x 220 x 400		mm
Weight	28		kg

Standard accessories (included in scope of supply)

- Manual X-Y Stage
- Precision Vice
- Standard Test block
- Vickers Diamond Indenter
- Measuring Microscope
- Objective lens x 10 and x 40
- Instruction manual
- Accessory Box
- Light Source bulb (2 pieces)

Additional accessories

Description	Order item
Indenter, diamand pyramid 136° to Vickers	H019.ZHV.00V
Indenter, diamand pyramid to Knoop	H019.ZHV.00K
Objective lenses for 10 times magnification	H019.ZHV.100
Objective lenses for 40 times magnification	H019.ZHV.400
Spare - electric bulb	H019.ZHV.010