

VICKERS HARDNESS TESTER CV-405/410/430/450AAT™

With analogue measurement micrometer reading and easy-to-use integrated hardness calculator

- High precision, high accuracy Vickers hardness tester
- High quality microscope with analogue scale
- Standard conforms to EN-ISO 6507
- Integrated hardness calculator
- Robust and reliable
- Four models with different weight ranges available
- Two way optical path
- Superior Optical system and illumination
- CV-CCD Video measurement system optional

Typical applications

- Cemented carbide, ceramics, steels, nonferrous metals
- Thin plates, metallic foils, plating, miniature objects
- Material strength, effect of heat treatment, depth of carburized or decarburized layer and flame hardened layer, effect of hardening, hardness resulting from welding or deposition
- Routine testing of precision components
- Research and development



Technical specifications

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| Vickers scales | CV-405AAT: HV0.3, HV0.5, HV1, HV2, HV3, HV5 CV-410AAT: HV0.5, HV1, HV2, HV3, HV5, HV10 CV-430AAT: HV1, HV2.5, HV5, HV10, HV20, HV30 CV-450AAT: HV1, HV5, HV10, HV20, HV30, HV50 |
| Test force selection | By dial knob; applied load shown on display |
| Accuracy | Conforms to EN-ISO 6507 |
| Test load | CV-405AAT: 0.3, 0.5, 1, 2, 3, 5 CV-410AAT: 0.5, 1, 2, 3, 5, 10 CV-430AAT: 1, 2.5, 5, 10, 20, 30 CV-450AAT: 1, 5, 10, 20, 30, 50 |
| Load control | Automatic (loading/dwell/unloading) |
| Load duration | 5 to 60 sec (5 sec increments) |
| Objectives | 10x, 20x (CV-405/410AAT), 5x, 10x (CV-430/450AAT) |
| Eyepiece magnification | 15x |
| Total magnification | 150x, 300x (CV-405/410AAT), 75x, 150x (CV-430/450AAT) |
| Measuring range | HV5 - HV3000 |
| Maximum specimen height | 160mm |
| Maximum specimen depth | 135mm from the centre |
| Optical path | 2-way switchable: eyepiece/camera |
| Display | Dwell time (sec), hardness value (from entering diagonal lengths via digital calculator) |
| Power supply | 220V, 50Hz |
| Dimensions | 220mm x 540mm x 650mm |
| Weight | 38kg |

Standard delivery

- Main unit
- Diamond indenter Vickers
- Objectives 10x, 20x or 5x, 10x
- Digital eyepiece 15x
- Flat anvil \varnothing 60mm
- 4 adjustable feet
- Level gauge
- Integrated hardness calculator on display
- Vickers test plate
- Spare halogen lamp
- Installation & users manual
- CV Instruments certificate

Optional accessories

- Precision vice
- XY-stage with micrometers
- Certified indentors
- Certified test blocks
- See pages indentors and test blocks

Optional system

- CV-CCD system for (semi-) and automatic traverses, pattern testing through pc support and motorised XY stage