

# 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

|                         |  |
|-------------------------|--|
| Vickers scales          | CV-405AAT: HV0.3, HV0.5, HV1, HV2, HV3, HV5<br>CV-410AAT: HV0.5, HV1, HV2, HV3, HV5, HV10<br>CV-430AAT: HV1, HV2.5, HV5, HV10, HV20, HV30<br>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<br>CV-410AAT: 0.5, 1, 2, 3, 5, 10<br>CV-430AAT: 1, 2.5, 5, 10, 20, 30<br>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<br>(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