

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

With digital measurement microscope, large LCD display featuring statistics, limits checking and scale conversions

- Digital Vickers hardness tester
- Large LCD screen, menu operated
- Conversion to other hardness scales: Rockwell
- Standard conforms to EN-ISO 6507
- Integrated high-speed thermal printer and RS232 data output
- 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-405DAT: HV0.3, HV0.5, HV1, HV2, HV3, HV5 CV-410DAT: HV0.5, HV1, HV2, HV3, HV5, HV10 CV-430DAT: HV1, HV2.5, HV5, HV10, HV20, HV30 CV-450DAT: HV1, HV5, HV10, HV20, HV30, HV50
Display conversion to	Rockwell
Test force selection	Dial
Accuracy	Conforms to EN-ISO 6507
Test load	CV-405DAT: 0.3, 0.5, 1, 2, 3, 5 CV-410DAT: 0.5, 1, 2, 3, 5, 10 CV-430DAT: 1, 2.5, 5, 10, 20, 30 CV-450DAT: 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/CV-410DAT), 5x, 10x (CV-430/450DAT)
Eyepiece magnification	15x with digital encoder
Total magnification	150x, 300x (CV-405/CV-410DAT), 75x, 150x (CV-430/450DAT)
Measuring range	HV5 - HV3000
Maximum specimen height	160mm
Maximum specimen depth	135mm from the centre line
Display	Menu operated keypad with large LCD-screen
Hardness value	5-digit
Diagonal length	4-digit (D1, D2)
Load duration	Dwell time (sec)
Conversion	Rockwell
Statistics	No., average, S. dev., R
Optical path	2-way switchable : eyepiece/camera
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
- Built-in printer
- RS232 data output
- 4 adjustable feet
- Level gauge
- Vickers test plate
- Spare halogen lamp
- Fuse
- 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