

# CV SERIES MACRO VICKERS INDENTATION



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The CV Series Macro Vickers Tester offers the advantage of testing materials that are extremely soft to ultra hard all on the same scale. Tests are precise and accurate, quick and easy due to exceptional engineering and craftsmanship. The CV Series is a top quality tester, and when combined with the available automated system (ARS), is flexible enough to grow with your needs.

## Special Features

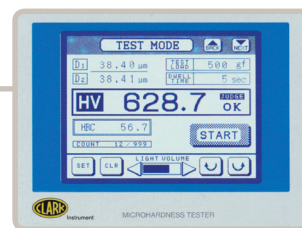
- Built in **dial-a-weight** system easily changes from load to load.
- Advanced microcomputer with LCD touch panel display (CV-800/CV-800AT)
- Automated test sequence performs easy hands-free loading operations
- Vickers, Knoop, Brinell and fracture toughness ( $K_{IC}$ ) testing (CV-800/CV-800AT)
- Fine measuring lines in microscope provide accurate indent readings
- Turret allows up to 3 different objectives attached at once (4 on CV-800)
- Digital micrometer head with on screen display (CV-800)
- USB output connection (CV-800)
- LED light source
- Complies with ASTM & ISO 17025 Standards



Series CV-102



Series CV-402



Series CV-802

ITEM	CV-102 / CV-102 AT	CV-402 / CV-402 AT	CV-802 / CV-802 AT						
LOAD	TYPE A	1	2	3	5	10	20	30	50 Hgf
		9.807	19.61	29.42	49.03	98.07	196.1	294.2	490.3 N
	Type B	0.3	0.5	1	3	5	10	20	30 Hgf
		2.942	4.903	9.807	29.42	49.03	98.07	196.1	249.2 N
LOADING MECHANISM	Automatic loading and releasing method								
LOAD APPLYING SPEED	Initial loading speed: 120μ m/sec – Actual loading speed: 60μ m/sec (automatic speed changing)								
DWELL TIME	5~40 sec				5~99 sec				
TURRET MECHANISM	Manual or Automatic Turret (AT)								
OBJECT LENS MOUNTING	Manual/Auto Type A: 10X/Type B: 10X & 20X (optional: max. 3 lenses)								
MAGNIFICATION OF MICROSCOPE	Type A: 100X – Type B: 100X & 200X								
MEASURING MICROSCOPE	Mechanical				Electronic				
Max. measuring length					100X: 800μ m – 200X: 400μ m				
Min. graduation					Micrometer: 0.5 μ m – Digital: 0.1μ m				
Min. measuring unit					Eye judgement: 0.1μ m – Digital: 0.1μ m				
MAX. HEIGHT & DEPTH	8.25 " x 6.5" (210 X 165 mm)								
AVAILABLE TEST PARAMETER	HV/HK				HV, HK, HBS, HBW & Hc				
BRINELL HARDNESS	HBS & HBW (opt: ball indenter & light load)								
FRACTURE TOUGHNESS VALUE(K <sub>IC</sub> )	Conforms to JIS R 1607/IF method								
HARDNESS CONVERSION	Conforms to ASTM (E-140)								
DATA MEMORY	Max. 999 test								
OK/NG CRITERIA	Limit setting and HI/OK/LO display								
SELF DIAGNOSIS	Displays motor and switch trouble								
OPTICAL FUNCTION	Changeable field aperture / Changeable numerical aperture / Changeable color filter								
OPERATION PANEL	Touch pad			Touch pad			LCD touch panel		
DATA DISPLAY	Power / Loading			D1 / D2 / HV-HK / Hardness Value / Loading / OK-NG Criteria			D1 / D2 / HV-HK / Hardness Value / Conversion Data / OK-NG Criteria / Start		
DATA OUTPUT				RS232C / Centronics / D1 / D2 / HV-HK / Test Load / OK-NG			RS232C / Centronics / D1 / D2 / HV-HK / Test Load / OK-NG / Conv. Scale / Conv. Data / Statistic Data		
ACCURACY	Conforms to ASTM – E92								
DIMENSIONS	7.7" x 20.4" x 27.1" / 195 x 517 x 690 mm								
WEIGHT	Aprx. 121 Lbs / 54.9 kg								
POWER SUPPLY	120 VAC 1Ø 2A / (AC 100~240V) Please Specify								
<b>STANDARD ACCESSORIES</b>									
Hardness Standard	1								
Diamond Indenter	1								
Measuring Microscope	1								
Built In Objective Lens	1								
Anvils – 2 1/2" flat, 1 1/2" V-shape	1 ea.								
Machine Cover, Bulb, Tools, Manuals, Leveling Leg Set									

**HV**  
**HK**  
**HB**  
**Hc**