CM SERIES MICRO INDENTATION

As a variety of new materials are being introduced to the market and products continue to be downsized, the significance of micro hardness testing has increased dramatically. CM Series Micro Testers utilize advanced technology for incredible accuracy and user friendliness. And for optimum flexibility, combine a CM Tester with the available ARS, automated system.

Special Features

- · Built in **dial-a-weight** system easily changes from load to load.
- Advanced microcomputer with LCD touch panel display (cm-800/cm-800AT)
- · Automated test sequence performs easy hands-free loading operation
- · Vickers, Knoop, Brinell and fracture toughness (Kc) testing (CM-800/CM-800AT)
- · Fine measuring lines in microscope provide accurate indent readings
- Turret allows up to 3 different objectives attached at once (4 on CM-802)
- Digital micrometer head with on screen display (CM-802)
- USB output connection (cm-802)
- · LED light source
- · Complies with ASTM & ISO 17025 Standards



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Series CM 102



Series CM 402



Series CM 802

Shown with optional self-leveling device.

ITEM CN	1-102 / CM-102 AT	CM-402 / CM-402 AT	CM-802 / CM-802 AT
Туре В: 1 (9.807), 3 (29.4 Туре С: 1 (9.807), 5 (49.03) Туре D: 1 (9.807), 5 (4	2), 5 (49.03), 10 (98.07), 25 (245), 10 (98.07), 25 (245.2, 50 (490.: 49.03), 10 (98.07), 25 (245.2), 50	00 (980.7), 200 (1961), 300 (2942), 500 (490 .2), 50 (490.3), 100 (980.7), 200 (1961), 300 3), 100 (980.7), 200 (1961), 300 (2942), 500 1 (490.3), 100 (980.7), 300 (2942), 500 (4903 5.2), 50 (490.3), 100 (980.7), 300 (2942), 500	(2942), 500 (4903), 1000 (9807) (4903), 1000 (9807), 2000 (19614) (5), 1000 (9807), 2000 (19614)
Loading Mechanism		Auto-load and release method	
applying load speed	50µm/sec		
DWELL TIME	5-40 sec 5-99 sec		
Turret mechanism	Manual or Automatic Turret (AT)		
MICROSCOPE MAGNIFICATION	Measurement: 500X (ob	nj. 50X - eyepiece 10X) — Observation: 100X ((obj. 10X - eyepiece 10X)
MEASURING MICROSCOPE Max. measuring length	Mechanical	Electronic For 100X:850µ m / For 500X: 170µ m	€lectronic
Min. graduation	Micrometer: 0.5 µ m	0.01µ m	0.01µ m
Min. measuring unit	Eγe judgement: 0.1μ m	Digital; 0.01µ m / In case of 500X	Digital; 0.01µ m / In case of 500X
available test parameter	HV/HK	HV/HK	HV / HK / HBW / Kc
racture toughness test			Conforms to JIS R1607 / IF method
DPERATION PANEL	Touch Pad	Touch Pad	LCD Touch Panel
ata display	Power / Loading	D1 / D2 / HV-HK / Hardness Value / Loading / OK-NG Criteria	D1 / D2 / HV-HK / Hardness Value / Conversion Data / OK-NG Criteria
pata 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 / e
HARDNESS CONVERSION			ASTM (€-140)
DATA MEMORY			Max. 999 tests
ok/ng criteria	Limit setting and HI / OK / LO display		
accuracy	Conforms to ASTM (E-384), ISO/DIS 6507-2, JIS B-7734/B-7725		
PHOTOGRAPHIC DEVICES	Built-In optical path and can be mounted at any time		
DIMENSIONS OF X-Y STAGE		100 x 100mm	
MAXIMUM MOVEMENT		25mm in X & Y axis	
MINIMUM MICRO GRADUATION		1/100mm	
MAXIMUM HEIGHT OF SPECIMEN		3.75" (95mm)	
MAXIMUM DEPTH OF SPECIMEN		4.5" (115mm)	
DIMENSIONS	7.3 x 17.7 x 19.8 in / 186 x 450 x 504 mm		
UEIGHT		Aprx. 85 Lbs / 39 kg	
POWER SUPPLY	120	VAC 1Ø 2A / (AC 100~240V) Please Specify	
Standard accessories			
Hardness Standard	1	Manual X4 Stage	1
Diamond Indenter	1	Precision Vise	1
Neasuring Microscope (electronic on CM-	400, CM-800) 1	Built In Objective Lens (x50, x10) l ea.
Hardness Conversion Table (CM-100, CM-		Built-in Indenter Cover	1
Accessory Box	1	Machine Cover, Bulb, Accessory	Rox Monuals Leveling Lea Set



Optional dual indenter auto-turret allowing up to four objectives.
(Available on CM-802 series only.)

HV HK HB Kc