## 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-800)
- Digital micrometer head with on screen display (CM-800)
- USB output connection (CM-800)
- · Unique light source with interchangeable color filters for clear viewing
- · Certified and ready to use









Series CM-800

Shown with optional self-leveling device.

ITEM CM	1-100/CM-100(AT)	CM-400/CM-400(AT)	CM-800/CM-800(AT)	
Туре В: 1 (9.807), 3 (29.45 Туре С: 1 (9.807), 5 (49.03) Туре D: 1 (9.807), 5 (4	2), 5 (49.03), 10 (98.07), 25 (245 1, 10 (98.07), 25 (245.2, 50 (490.3 19.03), 10 (98.07), 25 (245.2), 50	00 (980.7), 200 (1961), 300 (2942), 500 (49 6.2), 50 (490.3), 100 (980.7), 200 (1961), 300 3), 100 (980.7), 200 (1961), 300 (2942), 500 0 (490.3), 100 (980.7), 300 (2942), 500 (490 5.2), 50 (490.3), 100 (980.7), 300 (2942), 50	0 (2942), 500 (4903), 1000 (9807) 0 (4903), 1000 (9807), 2000 (19614) 03), 1000 (9807), 2000 (19614)	
Loading Mechanism		Auto-load and release method		
applying load speed	50µm/sec			
DWELL TIME	5-40 sec	5-40 sec 5-99 sec		
Turret mechanism		Manual/Automatic		
MICROSCOPE MAGNIFICATION	Measurement: 500X (ob	oj. 50X - eyepiece 10X) — Observation: 100X	(obj. 10X - eyepiece 10X)	
MEASURING MICROSCOPE  Max. measuring length	Mechanical	Electronic For 100X:850µ m / For 500X: 170µ m	Electronic	
Min. graduation	Micrometer: 0.5 µ m	0.01µ m	0.01µ m	
Min. measuring unit	Eye judgement: 0.1µ m	Digital; 0.01µ m / In case of 500X	Digital; 0.01µ m / In case of 500X	
available test parameter Fracture toughness test	HV/HK	HV/HK	HV / HK / HBW / Kc	
	Taurelo Oa el	Touch Pad	Conforms to JIS R1607 / IF method	
OPERATION PANEL	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	
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 / et	
HARDNESS CONVERSION			ASTM (€-140)	
DATA MEMORY			Max. 999 tests	
ok/ng criteria	Limit setting and HI / OK / LO display			
accuracy	Conforms to ASTM (€-384), ISO/DIS 6507-2, JIS B-7734/B-7725			
PHOTOGRAPHIC DEVICES	Ви	uilt-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" (T5mm)		
DIMENSIONS	Aprx. 186 x 450 x 504 mm			
WEIGHT	Aprx. 85 Lbs.			
POWER SUPPLY		Single phase 115 VAC / AC 100~240V 50/60	HZ	
Standard accessories				
Hardness Standard	1	Manual X-Y Stage	1	
Diamond Indenter	1	Precision Vise	1	
Measuring Microscope (electronic on CM-	400, CM-800) 1	Built In Objective Lens (x50, x1	0) 1 ea.	
Hardness Conversion Table (CM-100, CM-	400) 1	Built-in Indenter Cover	1	
Accessory Box	1	1 Machine Cover, Bulb, Accessory Box, Manuals, Leveling Leg Set		



Optional dual indenter auto-turret allowing up to four objectives.
(Available on CM-800 series only.)

## HV HK HB Kc