

United Service Company Inc

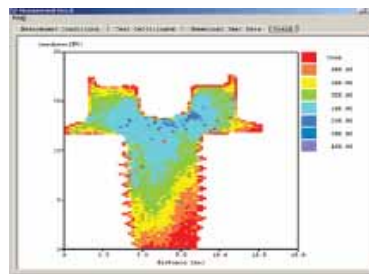
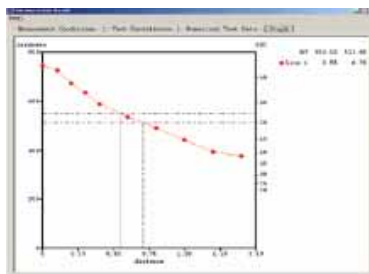
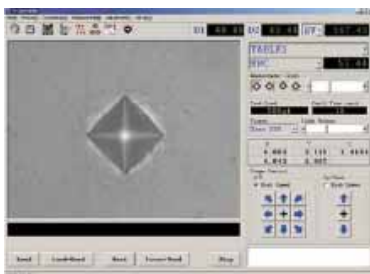
Sales and Service
West Hartford, CT 06110
(860) 667-4403
www.unitedservice.us

Introducing the new **ARS 9000**

The ARS 9000 is a fully automatic testing system capable of programming, indenting, viewing and recording in one convenient location. By configuring the ARS to your specifications, the CM-Series performs Micro indentations from 1-1000gf in either Vickers or Knoop; or both using the optional dual indenter, while the CV-Series performs Macro/Vickers indentations from 0.3-50kgf. For accuracy and productivity, the ARS 9000 is the perfect all-in-one system.

Special Features

- Auto-measure by selecting your programmed pattern (indent, focus, read, record)
- Various measurement patterns (straight, zigzag, circle, line set, random)
- Instant HV hardness displayed on chart after measurements on carbonized layer
- Various data outputs available – Measurement data, hardness distribution chart, case depth, max. value, min. value, mean value, dispersion, standard deviation, coefficient of variation, OK-NG criteria, conversion data, etc.
- Upper/lower safety switches on Z-axis prevent damage to indenter and objectives
- Unique light source with interchangeable color filters for clear viewing
- Available with up to 4 objectives and two indenters
- Certified and ready to use



United Service Company Inc is an ISO-17025 certified company with well over 100 years combined experience providing service and recommending the correct machine for your needs. Our major objective is to supply to our customers the best products, advice, and on-time service possible.

Call for a no cost, no obligation quote today!

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Item	CM ARS 9000	CV ARS 9000
Test Load	Type A 10/25/50/100/200/300/500/1000 gf	1/2/3/5/10/20/30/50 Kgf
	Type B 5/10/25/50/100/200/300/500 gf	0.3/.05/1/3/5/10/20/30 Kgf
	Type C 25/50/100/200/300/500/1000/2000 gf	
Loading Mechanism	Automatic loading, holding and releasing method	
Focus Operation	Automatic / manual operation available	
Auto-Stage Elevation	Auto (step motor) / manual (FM: standard handle / joystick)	
Load Applying Speed	Initial test speed 120µm/sec - actual test speed 60µm	
Dwell Time	5 - 40 seconds	
Precision Vise	Maximum opening: 50 mm	
Turret Mechanism	Automatic / Manual changeable (optional dual indenter and turret available)	
Object Lens	10X / 50X (Third lens capability)	10X / 20X (Third lens capability)
Min. Measurement Unit	Automatic - .1µm or .2µm / Manual - .1µm	
Manual Measurement	Video Line on CRT available	
Available Test Indenter	Vickers (HV) or Knoop (HK)	
Automatic X-Y Stage		
Max. Movement	50 x 50mm in X and Y axis	
Min. Movement	1µm	
Moving Speed	Approximately 25mm/1sec	
Driving Motor	Stepping motor	
Drive Control	By icon: 2 step speeds available in X, Y, Z axis	
Method	By joystick: flexible speed changing in X, Y, Z axis	
Accuracy	Conforms to ASTM - E-384 / E-92	
Dimensions	110mm x 110mm	
Movement Program Pattern	Straight, Zizzag, Circle, Angle (max. 8 lines x 3,000 indents), Random, Teaching, Matrix	
Program Setting	Start position setting for straight line and position setting. Mouse for random/teaching mode	
Auto-Measuring Software	Image processing by Microsoft Windows	
Test Method	Vickers (HV) or Knoop (HK)	
Repeat Measurements	+/- .8% on test block 700HV / 500gf	+/- .8% on test block 800HV / 10 Kgf
Auto-focus Time	Approximately 10 seconds	
Auto Reading Time	Approximately 0.3 seconds per indent	
Minimum Indent	Approximately 15µm	
Output Information	Hardness value / hardness data / case depth / hardness charts / insertion of pictures	
Standard Accessories		
Hardness Standard	1	
Diamond Indenter	1	
Built In Objective Lens	1	
Indenter Shaft Fixture & Cover	1	
Machine Cover, Bulb, Accessory Box, Tools, Manual, Cables, Leveling Leg Set		