

Auto Vickers Hardness Testing System AAV-602



Features:

- Utilizing the most sophisticated vision measurement technology, the AAV-602 scans the specimen with a low power zoom lens to determine the contour and match it with the desired testing pattern to completely automate the Vickers hardness test. ***This requires no operator involvement.***
- Rapid auto-focus, an oversized motorized X-Y stage, motorized turret and automatic indentation measurement combine to reduce the typical testing cycle time to less than half of a conventional tester. ***All this without user input.***
- Multiple sample capability means even greater sample throughput. ***This means less setup time.***
- The AAV-602 microhardness tester features an extended loading range and precision optics. ***This allows the operator to test a wider variety of materials.***
- Finally, you can just drop off the sample and let the AAV-602 tester do all the work. ***All without operator error.***

Technical

DATA

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Specifications

Model	AAV-602			
Test Force	98.07mN(10g), 245.2mN(25g), 490.3mN(50g), 980.7mN(100g) 1961mN(200g), 2942mN(300g), 4903mN(500g), 9807mN(1000g) 19610mN(2000g)			
Test Force Selection	Auto			
Loading Control	Automatic (loading, duration, unloading)			
Load Duration	5s to 99s (specified in 1- second increments)			
Objective	50X, 20X			
Measuring Magnification	lens	at Monitor	Indent measuring range	resolution
	50X	2600X	10 - 50µm	0.1µm
	20X	1300X	20 - 100µm	0.2µm
X-Y Auto Stage	Stage Size	10.48" (266mm) x 10.48" (266mm)		
	Travel Range	7.87" (200mm) x 7.87" (200mm)		
	Resolution	0.1µm		
Auto Focus Stage	Stage Size	4.92" (125mm) x 4.33" (110mm)		
	Fine Adjustment Range:	± 0.1mm(50X) ± 0.2mm(20X)		
	Auto Focus time	Ave. 1-second		
Turret	Motor Drive			
Video Monitor Camera	CCD			
Dimensions	W= 30.3" (770mm), D= 37.0" (940mm), H= 63.0" (1600mm)			
Weight	Main unit 770lbs. (350kg)			

STANDARD MEASUREMENT PATTERNS

Coaxial Pattern		Tangent Line Pattern		2-Point Line Pattern		Matrix Pattern	
Round Pattern		Rectangular Pattern		2-Point Line Pattern		S-Pattern	

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