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Hardness Testing Machines

Digital Micro Hardness Tester

Vicky MHV-1000Plus

Model	Vicky MHV-1000Plus
Code#	823-160Plus
Standard	JIS B -7735, ASTM E-384 and ISO 146
Certificate	CE



Characteristics

- Micro-Vickers hardness tester with colour touch screen;
- 8 inches colour touch screen , high resolution , easy to operate;
- Strong and stable body;
- LED illumination , light , adjustable , long life and no heat;
- Data storage for review and printing;
- Rotatable turret with five working positions;
- 250 lines encode with more precise measurement;
- D1 and D2 exchange automatically (Vicky MHV-2000Plus);
- Conversion between different scales;
- Two indenters available (Vickers and Knoop);
- Can be developed to semi-automatically or full-automatically system.



Hardness Testing Machines

Application Range

- Testing very thin materials like foils, thin pieces, coatings layers, etc;
- Measuring hardness of the surface of a part, small parts or small areas;
- Measuring individual micro-structures;
- Measuring the depth of case hardening by sectioning a part and making a series of indentations to describe a profile of the change in hardness.

Specification

Model		Vicky MHV-1000 Plus	Vicky MHV-2000 Plus
Code#		823-160Plus	823-260Plus
Test Load	gf	10 / 25 / 50 / 100 / 200 / 300 / 500 / 1000 / 2000 (option)	
	mN	98.07/ 245.2/ 490.3/ 980.7/ 1961/ 2942/ 4903/ 9807/19614 (option)	
Loading Mechanism		Automatic loading and releasing method 50 ~100 μ m/s	
Dwell Time		5 ~ 99 s	
Turret Mechanism		Automatic	
Objective		40x/10x (Option:20x,80x)	
Magnification of Microscope		For measurement :400x (Objective 40X and Eyepiece 10X)	
		For observation : 100x (Objective 10X and Eyepiece 10X)	
Measuring Microscope		Electronic (Auto D1/D2)	
Max. Measuring length		230 μ m (In case of 400x)	
Mix. Measuring unit		0.1 μ m (0.01 μ m for TS type)	
Max.Specimen Height		90mm	
Max.Specimen Depth		110mm	
Measuring Hardness Scale		HV, HK	
X-Y Stage		Manual type	
Dimensions		110 × 110 mm	
Max. movement		25 × 25 mm	
Min. micro graduation		1/100 mm	
Light Source		LED Illuminator	
Print Output		Measured data and statistic data :(Max. Value / Min. value / Mean value / Range / Standard deviation)	
Accuracy		Conform to : JIS B -7735, ASTM E-384 and ISO 146	
Photographic Device		Capable to mount photographic device (Option)	
Dimensions		W 240 × D 470 × H 520 mm	
Weight		48Kg	
Power Supply		Single phase AC 220 V 50/60 Hz	