



## ADVANCED DIGITAL VICKERS HARDNESS TESTER



- **VALUE**
- **VERSATILITY**
- **PERFORMANCE**

**BVH-AT-8P/MT-8P SERIES**



## DESCRIPTION:

Digital Macro Vickers hardness tester is a high-tech and new product combining the optics, mechanic and electrics features. It improves the precision of the test force and the repeatability and stability of the indicating value. With digital measuring eyepiece, no need for checking the table or inputting the diagonal of the indentation, it can directly shows the test force, indentation length, dwell time, test numbers, conversion scale, date and time. As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and shows on the screen. With built-in printer & RS232 interface, and equipped with data statistic and storage function.

## APPLICATION:

- Widely used to test the hardness of all kinds of metal materials (steel, nonferrous metals, tinsel, cemented carbide, sheet metal, etc.)
- Surface layer/coating (Carburization, nitriding, decarburization layer, surface hardening layer, galvanized coating, etc.)
- Glass, chip, ceramic, plastic and rubber, etc.

## TECHNICAL SPECIFICATION:

Model No.		BVH-5/10/30/50AT-8P	BVH-5/10/30/50MT-8P
Turret		Automatic turret	Manual turret
Hardness scale	<b>BVH-5AT-8P</b>	HV0.3, HV0.5, HV1, HV2, HV3, HV5	
	<b>BVH-5MT-8P</b>	0.3, 0.5, 1, 2, 3, 5kgf (2.94, 4.90, 9.80, 19.6, 29.4, 49N)	
	<b>BVH-10AT-8P</b>	HV0.3, HV0.5, HV1, HV3, HV5, HV10	
	<b>BVH-10MT-8P</b>	0.3, 0.5, 1, 3, 5, 10kgf (2.94, 4.90, 9.80, 29.4, 49, 98N)	
	<b>BVH-30AT-8P</b>	HV1, HV3, HV5, HV10, HV20, HV30	
	<b>BVH-30MT-8P</b>	1.0, 3.0, 5.0, 10, 20, 30Kgf (9.8, 29.4, 49.0, 98.0, 196, 294N)	
	<b>BVH-50AT-8P</b>	HV1, HV5, HV10, HV20, HV30, HV50	
	<b>BVH-50MT-8P</b>	1.0, 5.0, 10, 20, 30, 50Kgf (9.8, 49.0, 98.0, 196, 294, 490N)	
<b>Hardness conversion</b>		HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T	
<b>Hardness range</b>		8-2900HV	
<b>Min measuring unit</b>		0.01µm	
<b>Force loading</b>		Automatic loading - dwell - unloading	
<b>Eyepiece</b>		10X digital eyepiece with built-in encoder, auto calculate	
<b>Objective</b>		Standard: 10X, 20X (both lens can be used measuring & observe)	
<b>Magnification</b>		Standard: 100X, 200X	
<b>Dwell time</b>		1-99S	
<b>Data output</b>		8 inches touch screen, Built-in Printer, RS232 Interface	
<b>Test space</b>		160*135MM (H*D)	
<b>Power supply</b>		AC220V+5%, 50-60Hz	
<b>Standard</b>		ISO 6507, ASTM E92, JIS Z2244, GB/T 4340.2	
<b>Size &amp; N.W</b>		600x220x700mm; 55kg	
<b>Packing &amp; G.W</b>		800*470*800mm; 78kg	



## STANDARD ACCESSORIES:

Item Name	Q'ty	Item Name	Q'ty
Main Instrument	1 set	Level	1 piece
10X Digital Micro Eyepiece	1 piece	Power Cable	1 piece
10X / 20X Objective lens	Each 1 piece	Fuse 2A	2 pieces
Vickers diamond indenter	1 piece	Dust cover	1 piece
Large / medium / V shape testing table	Each 1 piece	Warranty card	1 piece
Horizontal Regulating Screw	4 pieces	Manual book	1 piece
Weights of HV5 & HV10	3 pieces	Weights of HV30 & HV50	4 pieces

## OPERATION INTERFACE OF HARDNESS TESTER :

Main interface

Operator

Sample

Range  To

Load(kg)  Dwell Time(S)

Turret

Brightness

D1  D2

HV

Conversion

Data storage

### DATA

NO.	Hardness-S	Hardness-V	Conversion-S	Conversion-V
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

MAX	MIN	AVE	VAR



**Magnification and Hardness automatic correct**

**Calibration**

Magnification:

Load(Kg):

Pulses: X  Y

Hardness

**Save** **Load(Kg)**

**Return**

**Load automatic correct**

**Force Calibration**

STD:  kg

Test:  kg

**Save** **Return**

**Micro Vickers / Knoop Hardness Measurement Software (Optional purchase)**

