



BANBROS ENGINEERING PVT. LTD.

The Precision Measurement People

AUTO TURRET TOUCH SCREEN HARDNESS TESTER

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



BHVS-1000Z

**FEATURE:**

- BHVS-1000Z adopts touch screen display,, convenient for users to choose; The operation interface adopts menu-type structure. Hardness scale HV or HK can be selected on the operation panel. During the test, the pressure head and objective lens automatically switch with each other, and the test point is automatically positioned accurately; Various hardness values can be converted to each other; The brightness of the light source can be adjusted.
- The optical cross guide rail is adopted to ensure the guiding accuracy; The speed and stability of transmission can be realized by using the two-stage pinion and rack transmission. High transmission ratio high precision worm gear worm, ensure more accurate transmission force.
- Can be equipped with a built-in camera, the image is clearer
- Can be calibrated according to the standard hardness block or length scale, so that the hardness value more accurate in line with the requirements.
- Eyepiece structure with digital encoder, and the touch screen directly displays the hardness value and D1 and D2 values.
- With automatic turret structure, the indenter objective lens can be switched automatically.

APPLICATION:

Heat treatment, carbide, quench hardened layer, the surface coating layer, steel, non-ferrous metal and small and thin shape parts, etc.

TECHNICAL SPECIFICATIONS:

Model No.	BHVS-1000Z
Test force	10gf (0.098N), 25gf (0.245N), 50gf (0.49N), 100gf(0.98N), 200gf (1.96N), 300gf (2.94N), 500gf(4.9N), 1kgf (9.8N)
Standard Conformed to	GB/T 4340.2, ISO 6507-2, ASTM E92
Min measuring unit	0.01μm
Conversion Scale	Rockwell, Brinell
Hardness measuring range	8~2900HV
Method of testing force applied	Automatic (Loading, Dwelling, Unloading)
Turret Type	Automatic
Test microscope magnification	400X(Measuring), 100X (observation)
Test force dwell time	1~99s
X-Y test sets	Dimension: 100*100mm Maximum travel 25*25mm
Data display output	8" Touch-screen display, can store 20 kinds of test results
Maximum specimen height	100mm
Distance from the center to the outer wall of the indenter	130mm
Power supply	AC 220V or 110V, 50 or 60Hz
Dimensions	540*260*650mm
Net Weight	About 50Kg



Operation Interface

Operator

Sample

Range To

Load(kg) Dwell Time(S)

Turret

Brightness

D1 D2

Conversion

Main Interface

Calibration

Magnification:

Load(Kg):

Pulses: X Y

Scale

Hardness

Hardness calibration

STANDARD ACCESSORIES:

Item	Qt'y	Item	Qt'y
Weight shaft	1	Weight	6
Micrometer eyepiece	1	X-Y table	1
Vickers hardness block (high block, middle block)	1 Each	Nylon universal sole (Adjusting screw)	4
Level	1	Plastic dust cover	1
Screwdriver	2	Touch pen	1
Power line	1	Spare fuse (2A)	2
Hexagon wrench (2.5mm)	1		



Note:

Special accessories can be provided.

- Knoop indenter: can measuring some high hardness materials.
- Video measuring apparatus can be provided. It can display the testing indentation image on the screen and make the measurement.
- CCD image processing system can be provided. It will clearly show indentation image on a computer screen, and make automatic or manual measurement through PC.
- Digital micrometer can be provided to be equipped on X-Y stage to realize digital movement control.