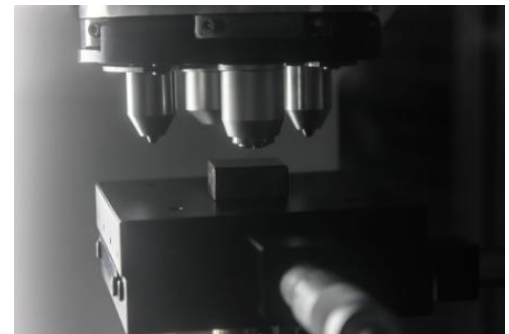




**BANBROS ENGINEERING PVT. LTD.**

The Precision Measurement People

# AUTO TURRET TOUCH SCREEN MICRO HARDNESS TESTER



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

## **BHVS-1000TZ-IID**



## FEATURE:

- It is equipped with Vickers, Knoop indenter and high power (40X/50X) and low power objective lens (10X/20X) at the same time.
- During the test, the indenter and the objective lens automatically switch to each other, and the automatic positioning of the test point is accurate.
- The lifting mechanism with optical cross guide rail is adopted to ensure the guiding accuracy. Rack and pinion two stage force transmission, can realize fast and stable force transmission;
- Light source using LED lamp, long life, no need to replace the bulb.
- Can be equipped with a built-in camera, the image is clearer.
- It can be calibrated according to the standard hardness block or length scale, and it can automatically correct the hardness according to the high, middle and low hardness values, and the hardness values are more accurate.
- 8" touch screen interface, easy to operate.
- All test parameters and results are stored on USB flash disk in Excel format, which is convenient for data processing and test report output.
- Various hardness values are converted to each other.
- Test setting parameters are protected by password;
- At least 3 languages, including Chinese and English, are available.
- With RS-232 interface, can be connected with the computer.
- Adopt optical cross guide rail lifting mechanism, force value is accurate, the image is clear.
- Optional maximum test force 2kg.

## APPLICATION:

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

**TECHNICAL SPECIFICATIONS:**

<b>Model No.</b>	<b>BHVS-1000TZ- IID</b>
<b>Test force</b>	10gf (0.098N), 25gf (0.245N), 50gf (0.49N), 100gf (0.98N), 200gf (1.96N), 300gf (2.94N), 500gf(4.9N), 1kgf (9.8N)
<b>Standard Conformed to</b>	GB/T 4340.2, GB/T 18449.2, ASTM E92
<b>Min measuring unit</b>	0.01μm
<b>Conversion Scale</b>	Rockwell, Brinell
<b>Hardness measuring range</b>	8~2900HV
<b>Method of testing force applied</b>	Automatic (Loading, Dwelling, Unloading)
<b>Turret Type</b>	Automatic
<b>Test microscope magnification</b>	400X(Measuring), 100X (test, observation) (Optional: 200X, 500X)
<b>Test force dwell time</b>	1~99s
<b>X-Y test sets</b>	Dimension: 100*100mm    Maximum travel 25*25mm
<b>Data output</b>	8 " touch screen display reading, can store 20 kinds of test results, equipped with U disk, optional built-in printer and RS-232 interface
<b>Maximum specimen height</b>	100mm
<b>Distance from the center to the outer wall of the indenter</b>	130mm
<b>Power supply</b>	AC 220V or 110V, 50 or 60Hz
<b>Dimensions</b>	540*260*650mm
<b>Net Weight</b>	About 50Kg



### Operation Interface

#### Main Interface

Operator

Sample

Range  To

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Load(kg)  Dwell Time(S)

Turret 10X HV 40X HK

Brightness

**Start**

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D1  D2

HV

Conversion

**Reset** **Data** **Setting**

#### Data Interface

DATA

NO.	Hardness-S	Hardness-V	Conversion-S	Conversion-V

**Last** **Next** **Clean** **Statistical**

MAX	MIN	AVE	VAR

**Print**

**Empty** **Return**

### Hardness calibration

Calibration

Magnification:

Load(Kg):

Pulses: X  Y

Scale  **Scale calibration**

Hardness

**Save** **Calibration**

**Language** **Return**

**STANDARD ACCESSORIES:**

Item	Qt'y	Item	Qt'y
Weight shaft	1	Weight	6
Micrometer eyepiece (10X)	1	X-Y table	1
Vickers hardness block (high block, middle block)	1 each	Touch pen	1
Level	1	Plastic dust cover	1
Hexagon wrench (2.5mm)	1	Nylon universal sole(Adjusting screw)	4 pcs.
Power line	1	Spare fuse (2A)	2 pcs.
Printing paper	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.