



**BANBROS ENGINEERING PVT. LTD.**

The Precision Measurement People

# MICRO VICKERS HARDNESS TESTER



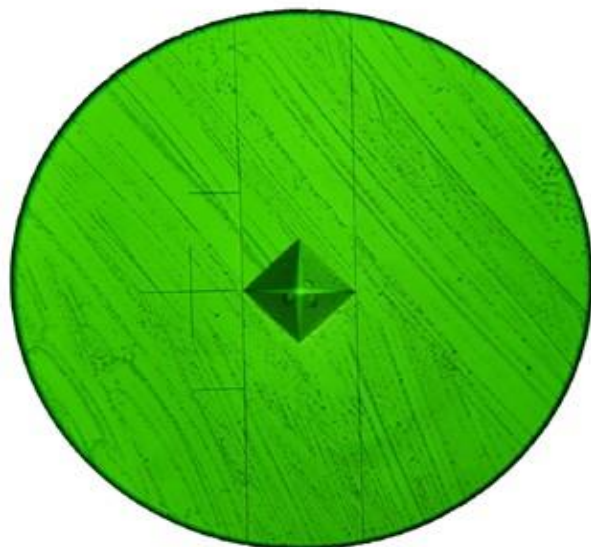
- **VALUE**
- **VERSATILITY**
- **PERFORMANCE**

**BHV-1000**

**FEATURE:**

- Manual turret shifting between indenter and objective lens.
- Large LCD screen display, easy and convenient operation.
- Input D1 & D2 value from front panel and hardness value will be displayed on LCD directly.
- High quality integral casting cast iron machine body with automotive paint treatment process, the appearance is smooth and beautiful.
- The hardness scale, test force, indenter type, holding time and the conversion unit can be displayed on screen and set.
- The turbo-worm elevating system can greatly improve the testing stability and accuracy.
- HD measurement and observation - dual objective lens combination, combined with the HD micrometer eyepiece, greatly reduce the manual interference and reading error.
- Convenient control system can automatically convert the unit of full hardness scales.
- The maximum and minimum hardness values can be set, when the test value exceeds the set range, an alarm sound will be issued.
- The hardness value can be corrected within a certain range by standard scale.
- With the database function, the testing result can be saved automatically up to 200 data.
- CCD image measuring system is optional.
- Knoop indenter can be selected to measure the Knoop hardness.
- Equipped with wireless blue-tooth printer, the data can be output through RS232 or USB interface.
- Precision conforms to GB/T4340.2, ISO6507-2 and ASTM E384.

It can be used to determine the Vickers hardness of steel, non-ferrous metals, ceramics, treated layers of metal surface, and the hardness grads of carburized, nitrided and hardened layers of metals. It is also suitable to determine the Vickers hardness of micro and super thin parts.

**MAIN INTERFACE:**

**TECHNICAL SPECIFICATIONS:**

Model No.	BHV-1000
Test force	10, 25, 50, 100, 200, 300, 500, 1000gf (0.09807, 0.2452, 0.4904, 0.9807, 1.961, 2.942, 4.904, 9.807N)
Conversion Scale	HRA, HRB, HRC, HRD, HRE, HRF, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HB, HV,
Hardness measuring range	5~5000HV
Measuring resolution	0.025μm
Hardness resolution	0.1HV
Max Height of Specimen	120mm
Depth of throat	110mm
X-Y Testing table	Dimension: 100*100mm      Max. travel: 25*25mm grade division of micrometer head: 0.01mm
Carried standards	GBT4340.2, ISO6507-2, ASTM E384
Magnification of eyepiece	10X
Magnification of objective lens	10X, 40X
Total magnification	100X, 400X
Data output	LCD display, wireless blue-tooth printer, RS232 and USB interface
Dwelling time	1~99s
Power supply	AC 220V or 110V, 50 or 60Hz
Overall Dimensions	530*290*490mm
Net weight	About 45Kg

**STANDARD ACCESSORIES:**

- X-Y Coordinate test anvil: 1 pc.
- Thin shaft anvil: 1 pc.
- Thin plate anvil: 1 pc.
- Flat nose pliers: 1 pc.
- Large V-notch anvil: 1 pc.
- Small V-notch anvil: 1 pc.
- Diamond pyramid penetrator: 1 pc.
- Micro-Vickers standardized block: 2 pcs.
- Bluetooth Printer: 1 Pc.
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**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.