

Digital Display Automatic Turret Low Load Brinell Hardness Tester Max Force 62.5Kgf**Model: HBS-62.5Z****Brief Introduction:**

The HBS-62.5Z digital low-load Brinell hardness tester is a high-tech electro-mechanical and electromechanical product. The machine is novel in design, with good reliability, operability and intuition.

It adopts digital Brinell microscopes with adjustable LED illuminator, it doesn't need the operator to read the detail length of indentation, it only needs operator to aim the D1, D2 diagonal of indentation and press the length key twice above the Microscope, then the built-in computer can compute the Brinell scale and display the final testing result on LCD display automatically;

Through the soft key input, you can select different force measurement, can adjust the strength of the measurement light source, can adjust dwell time, can display the indenter diameter, test force, measurement range, directly displays on the LCD screen.

Easy to use, suitable for the hardness measurement of a large-grained metal material. Such as cast iron, non-ferrous metals and their alloys, various annealed and quenched and tempered steels, and most of the factory-supplied steel, etc.,

This instrument uses a relatively small part of the Brinell hardness value, so it is particularly suitable for soft metals, Such as pure aluminum, copper, lead, tin, zinc and their alloys, the measured hardness is accurate. Hardness has high measurement accuracy, so reproducibility and good representation.

Applications:

- 1, Suitable for hardness tester with large grain metal materials, can reflect the comprehensive performance of the material;
- 2, Cast iron, steel, non-ferrous metals, especially for softer metals, such as pure aluminum, lead, tin, etc.

Main functions and features:

- 1, 4-inch large-screen LCD display, menu structure,
- 2, the test process automation, easy operation
- 3, High-definition optical system Light source brightness can be adjusted 20 levels.
- 4, With the hardness value conversion function, hardness up and down tolerance judgments.
5. Diagonal length D1 and D2 encoder inputs reduce human error.
- 6, The objective lens and pressure head can automatically switch positioning accuracy.
- 7, Test results and data processing can be output by the printer.
- 8, The shell is cast once, the structure is stable without deformation, and it can work in a relatively harsh environment;
- 9, The surface is treated with automotive baking paint and has strong scratch resistance. It is still bright as a new product for many years.

Technical Parameters:

Model	HBS-62.5Z
Test force	1, 5, 10, 15.625, 30, 62.5kgf
Display	5-digit hardness value, 4-digit diagonal length (D1, D2),
Dwell time	1~99 seconds
Loading control	Automatic (load/dwell/unload)
Conversion	Rockwell, Superficial Rockwell, Vickers
Resolution unit	0. 25μm(Subject to the choice of objective lens)
Total magnification	Objective: Observe or measure 5X, measurement 10X (support special objective),
Data output	Built-in printer
Vertical Space	Maximum height 165mm
Throat	130mm (Indenter center to inner wall)
Executive standard	Accuracy meets GB231.2, ISO6506-2 and ASTM E10
Power supply	AC220V±5%, 50~60Hz
Instrument weight	About 45kg
Optional accessories	XY table, CCD measurement system.

Accessories:

name	Quantity	name	Quantity
Instrument Main Unit	1	Objective lens 5x, 10x	1
Digital measuring eyepiece 10x	1	Brinell Indenter 1mm, 2.5mm	1
Standard hardness blocks	3	Large, medium and V-type test anvil	1
Power cable	1	Quality certificate, instruction manual	1
Fuse	2		
Optional accessories		XY table, CCD measurement system.	