

HB 1500

Portable Hardness Tester



**HB1500**

RIGID PORTABLE BRINELL HARDNESS TESTER SET

FEATURES

- Solid fine finished C-frame
- Easy to operate, also under difficult and harsh conditions
- Tolerance of test force <math><0.5\%</math>
- Test force is controlled by a shear pin
- Two types of application: C clamp and hammer impact
- Suitable for assemblies inconvenient to be taken to the lab and not allowed to be cut
- Accuracy is much higher than any other type hammer impact tester
- Used to test the hardness of forgings, castings, steels, nonferrous metal and its alloy products, and to test the hardness of annealed, normalizing and tempered mechanical parts.

GENERAL INFORMATION

The HB1500 Portable hardness tester is designed for the Brinell hardness test method. The test force is controlled by calibrated shear pins.

After reading the diameter of the indentation with the analogue microscope, the Brinell hardness number can be obtained from the lookup table. Simple and easy to use.

The HB1500 has two types of application: C clamp or hammer impact. It is possible to test small to very large specimens.

The unit in particular is suitable for assemblies that are inconvenient to be taken to the lab or which cannot be cut in smaller parts.

The test can be completed in any direction.

The test head itself can be used as a hammer impact tester, where the shear pin will limit the applied force. Therefore its accuracy is much higher than any other type hammer impact tester. Brinell hardness testing, with a testing force of 1580kg, indenter diameter of 7.26mm, then $F/D^2=30$. The test applied by the hydraulic HB1500 is equivalent to the standard Brinell hardness test with 3000kgf and a 10mm ball indenter.

The tester can be widely used to test the hardness of forgings, castings, steel samples, nonferrous and alloyed metals.

TECHNICAL SPECIFICATIONS

Test force	1580kg	
Tolerance of test force	<0.5%	
Accuracy	In accordance with ISO 6506	
Indenter	7.26mm steel spherical surface indenter (range: 100-400HB) 4.0mm carbide spherical surface indenter (Optional) (range: 400-650HB)	
Opening size	150mm x 100mm (HxD)	
Net weight	C clamp	4.2kg
	Hammer impact	0.8kg

ORDER DETAILS

HB1500 Portable Brinell Hardness tester set

STANDARD DELIVERY

- Instrument
- Steel ball indenter
- Flat anvil
- V-anvil
- Brinell standard hardness test block
- Holding handle
- Pin removal tool
- Pack of shear pins (250 pieces)
- Impact cylinder
- Reading microscope 20x
- Rubber protective caps
- Carrying case

OPTIONAL ACCESSORIES

- Carbide ball indenter
- Brinell reference hardness blocks
- Shear pins (a pack of 250pcs)
- Hemispherical spot anvil (used for testing tubing or curled specimens)
- Small flat anvil (used for testing small specimens)
- 40x reading microscope
- 3 lb hammer

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