



# VERTEX

## COMPUTERISED BRINELL HARDNESS TESTER MODEL-B3000PC



Computerized Brinell Hardness Tester is a simple and an accurate means to produce automatic measurement of the ball Indentation to get Brinell Hardness number. These testers are suitable for measuring the hardness of metallic parts with wide lasting range - from soft to hard, and their accurate results are widely acclaimed. These testers strictly confirm to IS : 2281, BS : 10003-2 and ASTM E-10.

### FEATURES:

- Fully Computerized (PC Based) manual operation Brinell Hardness Tester.
- Direct and accurate measurement of Brinell Hardness Number using "State of Art" image processing technology.
- 'Wide testing range' : from soft metal such as lead upto medium hardened steels.
- High accuracy and repeatability of measurement at all loads Class I.
- Faster measurement yielding to higher productivity.
- Hydraulic loading and unloading cycle.
- Advanced Window based software.

## LATEST GUI FEATURES:

- User friendly software with all help file and Window Features.
- Online indentation setting and focusing on PC monitor.
- Advance image processing: Algorithms implemented for precise calculation of hardness numbers with various options to cover all ranges of specimen.

## BATCH FILE PROCESSING:

- Option for data/storage and reports generation.

## STATISTICAL EVALUATION:

- Software for calculating standard deviation, mode median, histogram etc.
- Wide options in calibration mode.
- Extendibility for future advanced image processing analysis, requirements.

## CONSTRUCTION:

The robust machine frame is designed to accommodate the high precision loading system and an optical device with CCD camera. Specimen is placed on a testing table. The test cycle is semi-automatic. The accurate load is applied on a ball indenter by means of a lever and weights. After a specific lapse of time, the load is removed. The image is digitized using a CCD camera fitted on the optical device and is captured by the PC. The diameter of the indentation is directly measured by PC to give the Brinell Hardness Number directly.

## TECHNICAL DATA:

<b>Total Load</b>	kgf	500 to 3000 in stages of 250 kgf
<b>Magnification of objectives</b>	-	4x
<b>Max. Test Height</b>	mm	380
<b>Scale least count</b>	mm	0.01
<b>Throat depth</b>	mm	200
<b>Machine Dimension (Approx.)</b>	mm	L 745 x W 385 x H 1178
<b>Weight (Approx.)</b>	kg	450
<b>Power Supply</b>	V/Cy/Ph	415/50/3
<b>Measurement Range</b>	mm	1-6

## STANDARD ACCESSORIES

200 mm Dia Flat anvil	1 PC.
Testing table 70 mm dia with "V" groove for round jobs 10 to 80 mm dia.	1 PC.
Ball holder 5 mm	1 PC.
Ball Holder 10 mm	1 PC.
Test Block HB-5/750	1 PC.
Test Block HB-10/3000	1 PC.
Allen Spanner	4 PCS.
Telescopic Cover for elevating screw protection	1 SET.
Electric Cord	1 PC.
Instruction manual	1 BOOK
Spare balls 5 mm	10 PCS.
Spare Balls 10 mm	10 PCS.



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Actual product may differ in color and appearance due to constant development.