



# VERTEX

## COMPUTERISED BRINELL HARDNESS TESTER MODEL-B3000PC



Computerized Brinell Hardness Tester is a simple and accurate means to produce automatically measures the ball Indentation give 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) 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 up to medium hardened steels.
- High accuracy and repeatability of measurement at all loads.
- 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 medium, 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.