



GENESS ENGINEERS

Computerised BRINELL HARDNESS TESTER

MODEL : B3000-PC

Features :

- Fully Computerised (PC Based) Brinell Hardness Tester.
 - Direct and accurate measurement of Brinell hardness number using 'State of the Art' image processing technology.
 - 'Wide Testing Range' : from soft metal to medium hardness steels.
 - High accuracy and repeatability of measurement at all loads.
 - Faster measurement yielding to higher productivity.
 - Hydraulic loading and unloading cycle.
 - Advanced Windows based software.
- ▲ **Latest GUI features :**
User friendly software with all help file and Windows features.
- ▲ On line 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 option in calibration mode.
- ▲ Extensibility for future advanced image processing analysis requirements.



► Computer, Printer, Ups and Computer table is not part of the Machine.

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'FIE' Computerised Brinell Hardness Tester, Model B 3000-PC is a simple and accurate means to produce and automatically measure the ball indentation to give Brinell hardness number.

These testers are suitable for measuring the hardness of metallic parts with wide testing 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.

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 and brought in contact with clamping cone. Load/Unload/ Read operations are done through a 3-position hand lever. The image is digitized using a CCD camera fitted on the optical device and is captured by the PC. The diameters of the indentation are directly measured by PC to give the Brinell hardness number directly.

Technical Data :

Total Loads	kgf	500 to 3000 in stages of 250 kgf
Magnification of objectives	-	2X
Max Test Height	mm	380
Scale least Count	mm	0.01
Throat Depth	mm	200
Machine Dimensions (Approx.)	mm	L 1025 X W 645 X H 1178
Weight (Approx)	kg	450
Power Supply	V/Cy/Ph	415/50/3
Measurement Range	mm	1-6

Standard Accessories :

Testing Table 200mm dia	1 PC
Testing Table 70mm dia with 'V' groove for round jobs 10 to 80mm dia.	1 PC
Ball holder 5mm	1 PC
Ball holder 10mm	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

** PC & Printer is not in our standard scope of supply.*