



GENESS ENGINEERS

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Fully Automatic Computerized Brinell hardness Testing Machine

Model: B 3000-PCFA

Features:

- Fully automatic machine for production testing.
- Fully computerized (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 such as lead up to hardest, like tempered steel.
- High accuracy and repeatability of measurement at all loads.
- Advanced Windows based software:

Latest GUI features:

- Latest GUI features with user friendly software.
- Online indentation setting & focusing 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 & reports generation.
- Statistical Evaluation: Software for calculating standard deviation, mean, median, histogram frequency distribution graph, Variation graph etc.
- Calibration mode facility.
- Extensibility for future advanced image processing analysis requirements.
- "Auto measurement start" from machine.

Scope of Supply:

- Basic machine with CCD camera, optics with illumination system and connecting cable.
- USB device for Video.
- PC and Windows operating system is to be procured by customer.



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



Customized Brinell hardness Testers

Application:

Computerized Brinell Hardness Tester, Model: B3000-PC-FA is fabricated from steel plate and is designed for precise loading system.

It is fully automatic machine for production testing.

Once the job is placed on testing table and press "Cycle start" button the job is raised and brought in contact with clamping device.

Then loading operation starts. After preset dwelling timer, unloading operation starts. As soon as load is fully removed, the indenter is swiveled and the image is digitalized using a CCD camera fitted on machine and captured by the PC.

The diameter of indentation is measured by PC and the Brinell hardness is displayed on monitor with help of "state of the art" technology software. The job is lowered down and here the auto cycle is over.

Operationally the machine can be operated after lapse of interval without operation of push button, so that operator has only to do loading and unloading of job on machine.

This tester is designed for measuring hardness of metallic parts with wide testing range from soft to hard and its accurate results are widely acclaimed.

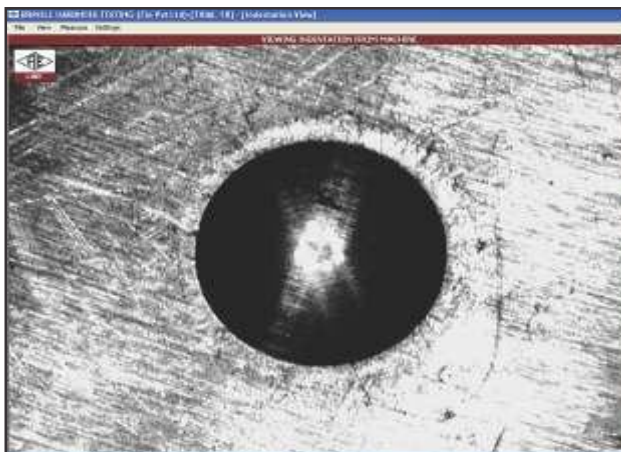
This tester confirms to IS: 1500-2.

Standard Accessories:

| | |
|---|-------|
| Testing Table 200mm dia. | 1No. |
| Testing Table 70 mm dia. With V groove for round jobs 10 to 80mm dia. | 1No. |
| Ball holder 5mm | 1No. |
| Ball holder 10mm | 1No. |
| Test Block HB-5/750 | 1No. |
| Test Block HB-10/3000 | 1No. |
| Allen Spanner | 4Nos. |
| Telescopic cover for elevating screw protection. | 1Set |
| Electric Cord | 1No. |
| USB device for Video | 1No. |
| Instruction Manual | 1Book |

Technical Specifications:

| | | |
|-----------------------------|---------|---------------------------------|
| Test Loads | kgf | 250 to 3000 instages of 250kgf. |
| Magnification of objectives | - | 4X |
| Maximum Test Height | mm | 380 |
| Scale least count | mm | 0.01 |
| Throat Depth | mm | 200 |
| Weight (Approx.) | mm | 450 |
| Power Supply | V/Cy/Ph | 415/50/3 |
| Measurement Range | mm | 1-6 |



Indentation View



Result View