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Load Cell Based Automatic Brinell Hardness Tester

GENESS ENGINEERS

Model - B 3000-LC



Description :

'FIE' touch screen Brinell hardness tester Model B 3000-LC is a simple and accurate means to produce and automatically measure the indentation to give Brinell hardness number.

These testers are suitable for measuring the hardness of precision metallic parts with wide testing range from soft to hard and their accurate results are widely acclaimed.

These testers strictly confirms to IS 1500-2, 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 USB Camera equipped with front touch screen HMI.

Specimen is placed on a testing table and brought in contact with indenter. Load/Unload/Read operations are done automatically.

The image is digitalized using USB camera fitted on the optical device and is captured by the front touch screen HMI.

The diameters of the indentation are directly measured by software to give the Brinell hardness number.

The machine is equipped with latest touch screen HMI, so there is no need to arrange for computer.

Technical Specifications :

Magnification of objectives	4X
Measuring Range	1 to 6mm
Maximum Test Height (mm)	275
Scale least count (mm)	0.01
Throat Depth (mm)	200
Machine Dimensions	L1100 x W650 x H1900 Approx.
Weight	1200 Kg. Approx.
Power Supply	230VAC, 50Hz, 1-Ph.

Standard Accessories :

Testing Table 70mm dia with 'V' groove for round jobs 10 to 80mm dia.	1 No.
Ball Holder 10mm	1 No.
Test Block HB-10/3000	1 No.
Instruction Manual	1 Book.

Features :

- Touch Screen Brinell Hardness Testing Machine.
- Accurate Measurement of Brinell Hardness number using "State of the art" image processing technology.
- Wide testing range : from soft metal up to hardest.
- High accuracy & repeatability of measurement at all loads.
- Faster measurement yielding to higher productivity.
- Small size of indentation makes it a non destructive testing on finished components.
- Ball screw and linear motion guideways for loading & unloading.
- Touch screen laptop display for results.
- Servo driven linear motion slide for image processing.
- Digital setting display for X, Y axes & load selection.

Latest GUI features

- User Friendly software.
- Online indentation setting & focussing on front touch screen display.
- 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.
- Wide options in calibration mode – calibration/verification.
- Extensibility for future advanced image processing analysis requirements.
- USB Printer port for printer interface with result & graph print out.
- Facility to measure in Manual, Semi & automatic mode.
- Facility to export result/data in PDF format.

FIE reserves the right to change the specifications without notice due to constant improvement in design.

