SHRI ENGINEERING

Touch Screen Computerized Brinell Hardness Testing Machine

Model : B 3000-TS

Wide Testing Range from
Soft metal up to hardest

Accuracy Measurement of Brinell Hardness
Number using image processing technology

Fully Computerized Touch Screen
Brinell Hardness Testing Machine

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Features :

- Fully Computerized 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.
- Hydraulic loading and unloading cycle.
- Advanced windows based software
- Inbuilt branded touch screen laptop.
- Front panel touch screen display.

Latest GUI features

- User Friendly software with windows features.
- Online indentation setting & focusing 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.
- Statistical Evaluation : Software for calculating standard deviation, mean, median, histogram etc.
- Wide options in calibration mode – calibration/verification on PC makes easier to operate.
- 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 & Automatic Mode.
- Facility to export result/data in PDF format.

Application :

Shri Engineering touch screen Brinell hardness tester Model B 3000 – TS 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.

Construction :

The robust machine frame is designed to accommodate the high precision loading system and an optical device with CCD Camera equipped with front touch screen laptop.

Specimen is placed on a testing table and brought in contact with clamping cone. Load/Unload/Read operations are done through 3 position hand lever.

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

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

The machine is equipped with latest touch screen branded laptop so their is no need to arrange for computer.

Technical Specifications :

Test Loads	250 to 3000 in stages of 250kgf.
Magnification of objectives	4X
Measuring Range	1 to 6mm
Maximum Test Height (mm)	380
Scale least count (mm)	0.01
Throat Depth (mm)	200
Machine Dimensions	L1025 x W645 x H1178 Approx.
Weight	450 Kg. Approx.
Power Supply	415V, 50Hz, 3-Ph.

Standard Accessories :

Testing Table 200mm dia	1 No.
Testing Table 70mm dia with 'V groove for round jobs 10 to 80mm dia.	1 No.
Ball Holder 5mm	1 No.
Ball Holder 10mm	1 No.
Test Block HBW-5/750	1 No.
Test Block HBW-10/3000	1 No.
Allen Spanner	4 Nos.
Weights	1 Set
Telescopic cover for elevating screw protection	1 Set
Electric cord	1 No.
USB device for Video	1 No.
Instruction Manual	1 Book.

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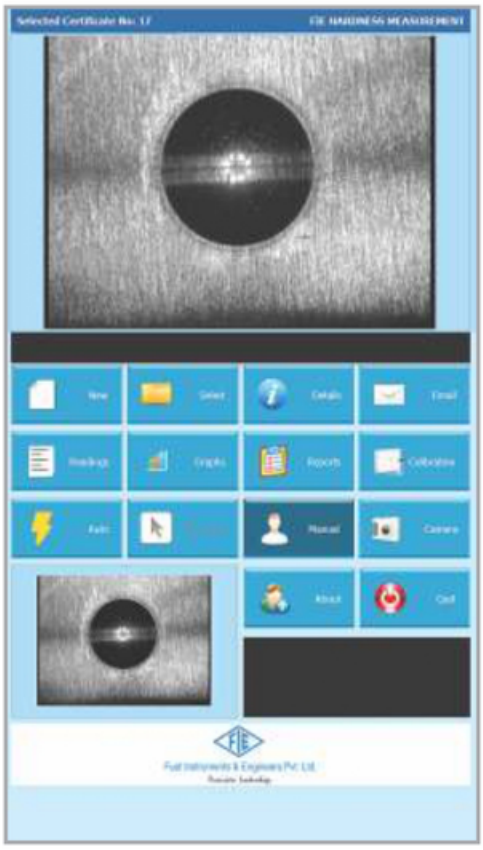
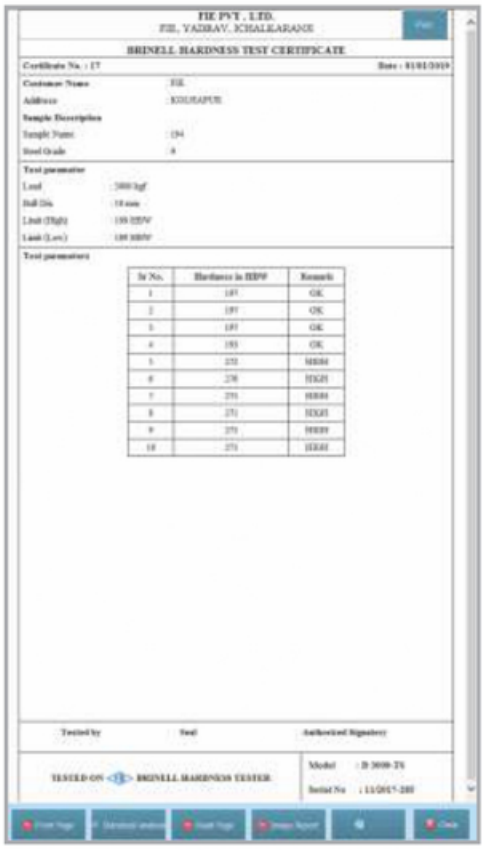
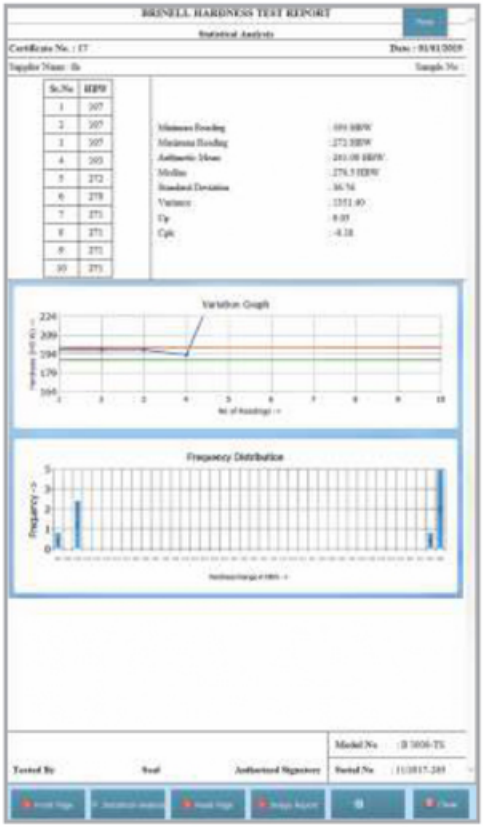
Software Packages for - B 3000-TS



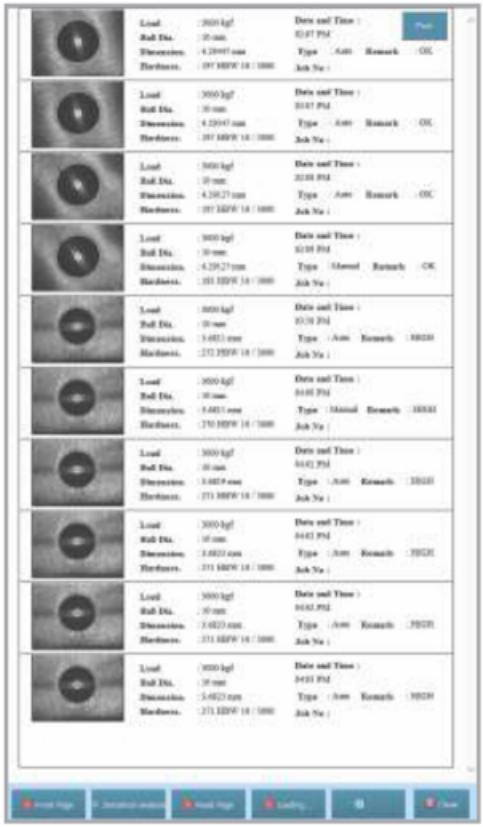
Home Page



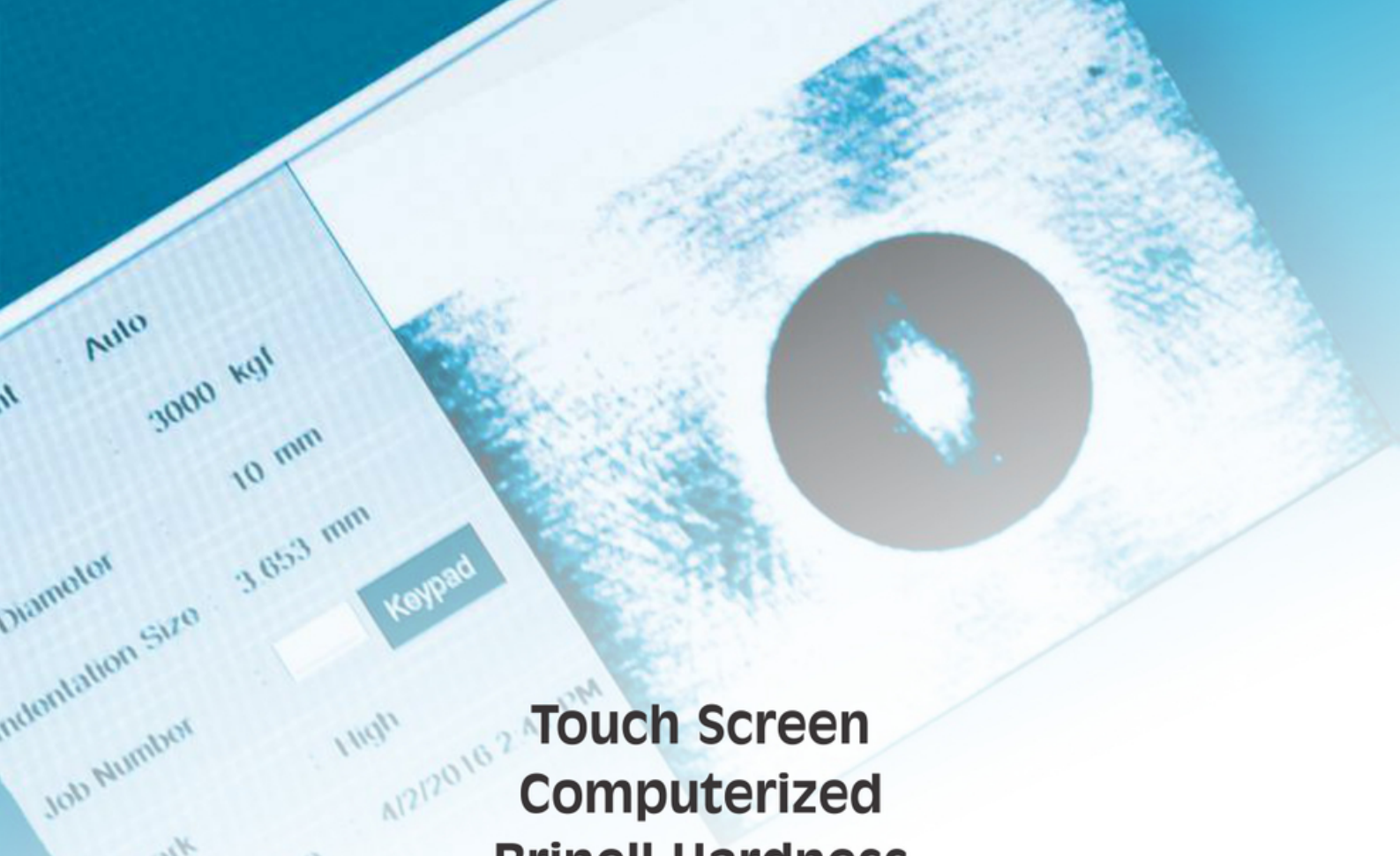
Result



Statistics



Readings with Impressions



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SHRI ENGINEERING

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