ETS-LB3000

Loadcell Brinell Hardness Tester with Industrial PC

EKLAVYA TECHNO SOLUTIONS

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of Excellence

Manufactured By :

EKLAVYA TECHNO SOLUTIONS PVT. LTD.

Near Taradal Naka,Shahapur,Ichalkaranji 416 115
Tal : Hatkanagale Dist : Kolhapur, Maharashtra State, INDIA.

Cell : +91 8830406235/8888466968 ● **E-mail :** eklavyainfo@yahoo.com, saleseklavyatech@gmail.com
Web : www.eklavyatech.com

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SECTOR NUMBER – 7, NEAR VISHWESHWAR CHOWK, MIDC BHOSARI, PUNE – 411026,MAHARASHTRA, INDIA
Cell : +91 9370584101/9511277840● **E-mail :** services@rayscalibration.com,krushna@rayscalibration.com

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Loadcell Based Brinell Hardness Tester PC

Imported CCD Camera

Built in 10" Industrial PC

USB Connectivity

Features :

PC-Based Control System: Seamless integration with your computer system for complete digital control and ease of operation.

Advanced Image Processing Technology: Accurately and directly calculates Brinell Hardness Numbers (BHN) using state-of-the-art image analysis algorithms.

Wide Testing Range: Capable of testing from soft metals to medium-hard steels, covering a broad spectrum of materials.

Accuracy & Repeatability: Servo-Ballcrew with loadcell feedback Delivers consistent and precise hardness values cross all load ranges, ensuring reliability in every test.

Boosted Productivity: Faster measurement cycles enable higher throughput, saving valuable time in testing operations.

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Brinell Hardness Testing Machines

Series : BRINELL PC

Overview

Load cell based digital Brinell hardness tester.
Hardness value displayed directly on LCD screen after entering the diameter of impression.
Load/Scale selection through keypad.
Wide test force from 62.5, 100, 125, 187.5, 250, 500, 750, 1000
Automatic testing (Loading, Dwell, Unloading) after applying the preliminary test force by hand.
Brinell Hardness Number is automatically measured by turrete and software.

Applications

Designed for testing the hardness of precision metallic parts across diverse industries such as automotive, aerospace, foundries, R&D labs, and material testing centers.

The robust mechanical frame ensures long-term stability, while the digital imaging system ensures consistent, error-free measurement

Construction & Technology

Rigid and robust frame housing a high-precision servo-ball screw based loading system with closed loop Loadcell feedback.

Integrated optical device with high-resolution CCD camera

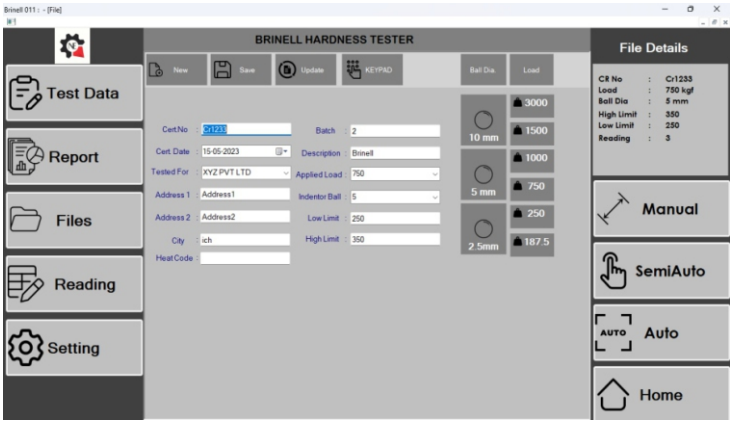
How It Works

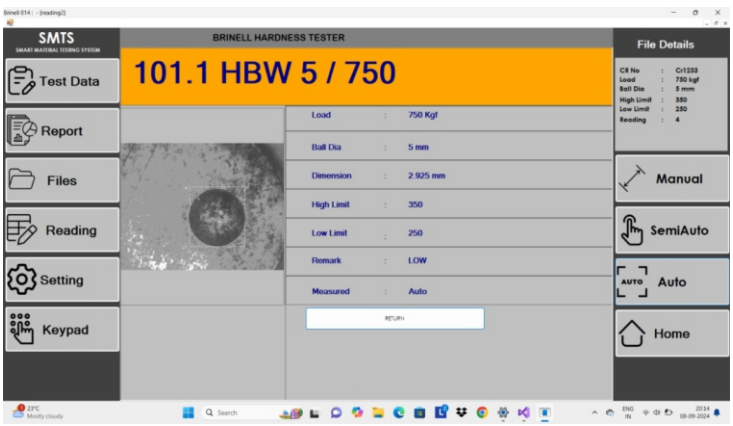
In The ETS-LB3000 Electronic Brinell Hardness Tester from Eklavya Techno Solutions Pvt. Ltd. is a high-precision, load-cell-based Brinell testing system designed for accurate and reliable hardness measurement. The machine utilizes advanced electronic force-sensing technology with a closed-loop control system, where the CPU continuously monitors the applied load and regulates the motor-driven loading mechanism to ensure precise and stable test force application.

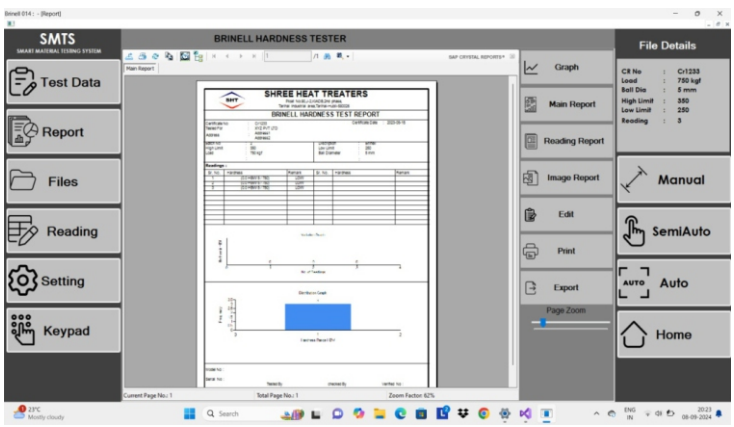
A servo-motor-controlled loading and unloading system provides smooth force application with automatic compensation for any force deviation, guaranteeing consistent and repeatable test results.After completion of the indentation cycle, the turret mechanism automatically indexes, moving the indenter away from the test position. The integrated high-resolution camera is then aligned over the indentation to capture the impression image.

Using advanced image-processing algorithms, the software automatically measures the indentation diameter and directly calculates the Brinell Hardness Number (BHN), eliminating manual measurement and significantly improving testing efficiency and accuracy.For enhanced operator safety, the ETS-LB3000 is equipped with an emergency stop device and a robust mechanical structure.









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Brinell Hardness Testing Machines

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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 HB-5/750	1 No.
Test Block HB-10/3000	1 No.
Allen Spanner	4 Nos.
Telescopic cover for elevating screw protection.	1 Set
Electric Cord	1 No.
USB device for Video	1 No.
Instruction Manual	1 Book

Technical Specifications :

Test Loads	kgf	250 to 3000 in stages of 250 kgf.
Magnification of objectives	-	25 X
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