Brinell -TS

EKLAVYA
TECHNO SOLUTIONS

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Next Generation
of Excellence



Series : Brinell-TS

Brinell Hardness Tester Touch Screen

Imported CCD Camera

PC Software

USB Connectivity

Features :

Touchscreen Pannel : Intuitive on-machine control through a responsive capacitive touch display for quick test setup, start/stop, and parameter selection—ideal for shop-floor use.

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: Delivers consistent and precise hardness values across all load ranges, ensuring reliability in every test.

Hydraulic Loading & Unloading: Robust hydraulic system ensures smooth, stable, and repeatable testing cycles with minimal operator intervention.

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

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Brinell Hardness Testing Machines

Series : Brinell-TS

Overview

Tthe ETS Model Brinell-TS is a state-of-the-art, fully automatic Brinell Hardness Testing Machine designed for high-precision hardness measurement of metallic components.

Equipped with a high-resolution capacitive touchscreen interface and advanced image processing algorithms, the B3000 automates the entire indentation and measurement process, delivering accurate and repeatable Brinell Hardness Numbers (BHN) with minimal operator intervention.

This advanced tester is suitable for a wide range of materials, from soft metals to medium-hardness steels, and is strictly compliant with IS 1500-2, BS 10003-2, and ASTM E-10 standards—making it ideal for production, quality control, and R&D applications.

Construction & Technology

Rigid and robust frame housing a high-precision hydraulic loading system

Integrated optical device with high-resolution CCD camera

How It Works

Indentation is made via hydraulic loading.

Image is captured through the CCD camera.

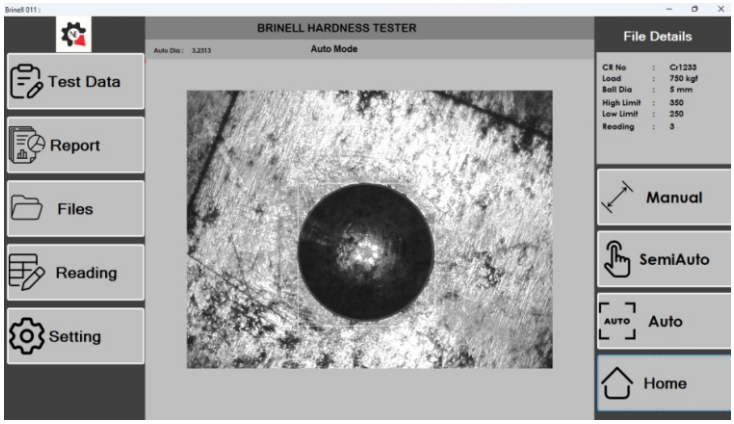
Diameter of the indentation is automatically measured by ETS software.

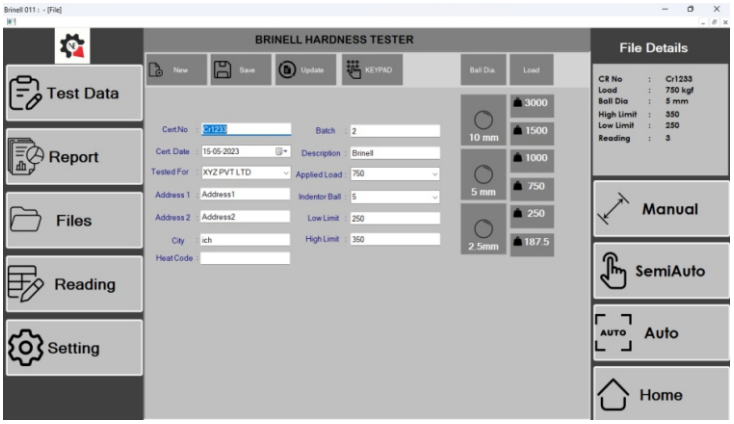
BHN is calculated and displayed instantly with optional graph/report printout.

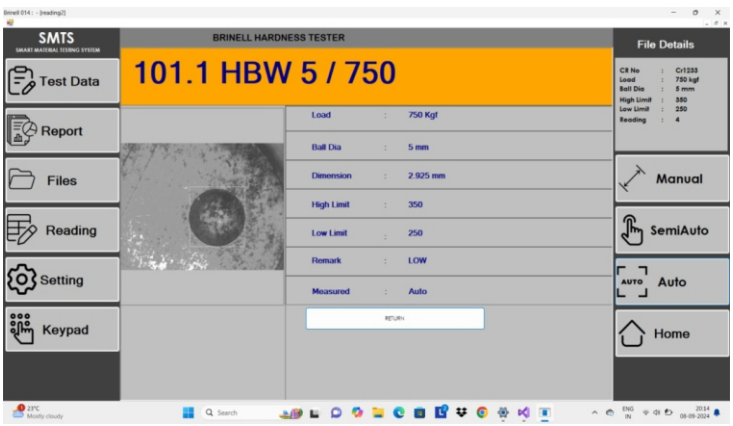
Applications

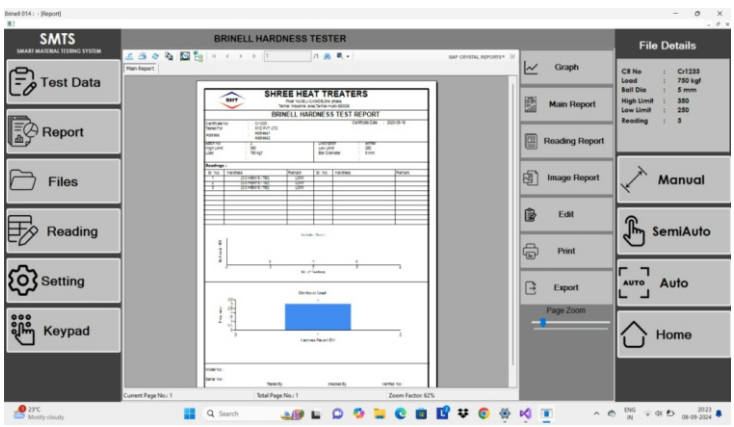
Designed for testing the hardness of precision metallic parts across diverse industries such as automotive, aerospace, foundries, R&D labs, and material testing centers.

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









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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	-	4 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

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Manufactured By :

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