VcB - 250

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VcB - 250

Vickers Cum Brinell Hardness Tester Machine
motorized loading operation

Wide Testing Range From
Soft metal to Medium hardness Steel

Motorized Load Unload

Built In Projection Screen
to get accurate results

Features :

- Performs both **Vickers and Brinell hardness testing** on a single machine.
- **Convenient load selection** through an easy-to-use push knob.
- **Load range:** 5 kgf to 250 kgf.
- **Optical magnification options**: 35X and 70X for clear and precise viewing.
- **High-precision indentation measurement** for reliable results.
- **Load accuracy:** within ±1%.
- **Smooth Load and unload operation** for user convenience.
- Ensures **high accuracy and excellent repeatability** in measurements.
- **Suitable for a wide range of materials** — from soft metals to hard alloys.

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Optical Vickers Cum Brinell Hardness Testing Machine

Series : VcB-250

Standard Accessories :

Vickers Diamond Indenter	1 No.
2.5 mm Ball Indentor	1 No.
5 mm Ball Indentor	1 No.
HV Standard Test Block	1 No.
Brinell Test Block 187.5/2.5 HBW	1 No.
Steel Ball Ø2.5 & Ø5.0 mm	5 Nos. each
5X Objective	1 No.
10 X Objective	1 No.
Spanners	1 Set
Electric Cord	1 No.
Halogen Lamp	1 No.
Telescopic Cover	1 Set
Instruction Manual	1 Book

Technical Specifications :

Test Loads for Vickers Test	5,10,15,20,30,40,50,60,100,120 kgf.
Test Loads for Brinell Test	15.625,31.25,62.5,187.5,250 kgf
Optical Magnification	35X, 70 X
Max. Test Height (mm)	200
Throat Depth (mm)	150
Machine Dimension (mm)	L780 x W361 x H 1100
Weight (Approx.)	250 kg
Power Supply	220 VAC, 50 Hz, 1 Phase

Description:

The ETS Make Vickers cum Brinell Hardness Testing Machine is a compact and versatile unit designed to perform both Vickers and Brinell hardness tests on various types of metals.
This machine is ideal for determining the hardness of precision-engineered metallic components across a wide testing range - from soft to hard materials delivering highly accurate and consistent results as per standard methods.

Construction:

ETS Make Hardness Testers are engineered for exceptional precision, reliability, and ease of operation, ensuring long-term stability in performance.
The system is designed for testing both Vickers and Brinell hardness of steels and other metallic materials. Test loads are applied through dead-weight mechanisms and can be conveniently selected using a push-button control. Indentation measurement for Vickers (diagonal measurement) and Brinell (diameter measurement) is carried out through a built-in optical system equipped with a graduated micrometer readout. After indentation, the objective lens automatically positions itself, and the indentation image is clearly displayed on the front focusing screen for accurate evaluation. The loading operation is initiated by a front-mounted push button, while unloading is performed manually via a smooth hand lever mechanism, ensuring user-friendly operation and dependable test cycles.

Due to constant Research & Development, Specifications and Features are subject to change without notice.

Optical Vickers Cum Brinell Hardness Testing Machine

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