

Brinell Hardness Tester, Model : AKB - 3000 - N

Features :

Brinell Hardness Tester, Model : AKB-3000 is designed for Brinell hardness measurement on steels and other ferrous materials and also on non ferrous materials like Brass, Bronze, Aluminium, etc. The material can be cast, forged or rolled and the shape can be flat, round or irregular.

The actual load application system is of dead weight type combined with mechanical lever system. The supporting hydraulic system is for initial lifting of load before each test and dampening the load application system for smooth application of load.

A separate hydraulic power pack, positioned in the bottom part of the machine adds to the machine stability.

Our unique design of a floating fulcrum lever system ensures high accuracy and dependability.

The machine accuracies confirm to IS: 2281-2005 & BS : 240.



Model : AKB - 3000 - N



Model : OPAB - 3000 - N

Optical Brinell Hardness Tester, Model : OPAB - 3000- N

Features :

This is a modified version of AKB-3000 which is provided with an inbuilt optical system of 14X magnification.

An automatic indenter index system is provided which tilts the indenter after the impression and the magnified image is visible on the screen for measurement with a 0.01 mm Least count.

Thus this machine gives fast and accurate results with less operator fatigue.

This model is mainly useful for production testing in Auto shops, Foundries, Forge shops & Heat treatment units etc.

Technical Specifications :

Model	AKB-3000 - N	OPAB-3000 - N
Loads (kgf)	500 to 3000 in steps of 250	500 to 3000 in steps of 250
Initial load (kgf)	250	NIL
Max. test height x throat (mm)	380 x 200	380 x 200
Max. Depth of elevating screw below base (mm) approx.	180	180
Machine height (mm) approx.	1150	1250
Size of base (mm) approx.	400 x 740	400 x 740
Net weight (kg) approx.	325	400
Drive Motor (hp)	0.5	0.5
Mains Supply	3 Phase, 415V, 50Hz, A.C	3 Phase, 415V, 50Hz, A.C
Indentation Measurement	By separate Microscope	Direct reading optical device with 14X Magnification.

Standard Accessories :

Model	AKB-3000 - N	OPAB-3000 - N
Testing table dia 200 mm	1 No	1 No
Testing table dia 70 mm with "V" groove for round jobs dia 10 to 80 mm	1 No	1 No
Ball holder dia 5 mm	1 No	1 No
Ball holder dia 10 mm	1 No	1 No
Test Block HBW - 5 / 750	1 No	1 No
Test Block HBW - 10 / 3000	1 No	1 No
Brinell Microscope (25 X Magnification)	1 No	-
Allen Key set	4 pieces	4 pieces
Tungsten carbide ball dia 5 mm	1 No	1 No
Tungsten carbide ball dia 10 mm	1 No	1 No
Instruction Manual	1 Book	1 Book

Optional Accessories :

Test blocks of desired hardness range
Special Test fixtures for odd jobs / production testing
Computerized Brinell impression measurement system (BIMS System)

We can also supply - Universal Testing Machines, Compression Testing Machines, Tensile Testing Machines, Spring Testing Machines, Vickers Hardness Testers, Rockwell Hardness Testers, Dynamic Balancing Machines, Portable Dynamic Hardness Testers, Impact Testing Machines and Special Purpose Material Testing Machines, etc.