

# VICKERS HARDNESS TESTING MACHINE

Cum Brinell

- Testing range is very wide, from soft metal such as lead up to the hardest, like hardened steel
- Thin sheet metal is perfectly tested because the load applied is very small
- Same hardness number is obtained on the same specimen, regardless of the load applied.
- Built in projection screen to get accurate result



**Vickers as well as Vickers cum Brinell Hardness Testers** are suitable for Vickers and Brinell hardness of steel and other metals. These machines are designed and manufactured for very high accuracy, reliability and ease of operation. The selection of load is effected with the push button control system. The measurement of diagonal / diameter of indentation is done with the help of built-in optical system with graduated readout with micrometer. After taking indentation on the work piece, the objective lens is automatically swivelled into position and image of indentation appears on the focusing screen fitted in front of the machine. A push button is provided for starting the loading cycle and unloading is accomplished through hand lever.

This machine conforms to IS:1754-1986 for Vickers and IS: 2281-1983, BS: 240 for Brinell Test.

## VICKERS HARDNESS TESTER TECHNICAL DATA

	V-550	V-150	BV-1250
Loads (kgf)	5,10,15,20,30,40&50	1,2,5,10,15,20,30,40&50	1,2,5,10,15,20,30,40,50,60,100&120 Loads for Vickers 15.625,31.25,62.5,187.5,250 Loads for Brinell
Optical magnification (X)	70X, 140X	70X, 140X	35X,70X, 140X
Maximum test height (mm)	250	250	250
Sweep of machine frame (mm)	150	150	150
Weight approx. (kgs)	175	180	200
Dimension LxWxH (mm)	660x320x990	660x320x1130	660x320x1130

	• Loads can be supplied in Newton also		Least count of optical system 0.0005 mm
Measuring range possible	1	0 to 3.2 mm on 35X magnification	
w.r.t. selected optical magnification	2	0 to 1.6 mm on 70X magnification	
	3	0 to 0.8 mm on 140X magnification	

Standard Accessories	V550	V150	BV1250
Flat table of 100 mm dia	1 No.	1 No.	1 No.
Vee table for specimen – 6 to 80 mm dia.	1 No.	1 No.	1 No.
Vickers diamond indenter	1 No.	1 No.	1 No.
2.5 mm ball indenter (without ball)	-	-	1 No.
5 mm ball indenter (without ball)	-	-	1 No.
Vickers hardness test block	1 No.	1 No.	1 No.
Brinell hardness test block	-	-	1 No.
Electrical cord	1 No.	1 No.	1 No.
Instruction manual	1 Book	1 Book	1 Book
2.5 mm T. C. ball	-	-	1 No.
5 mm T. C. Ball	-	-	1 No.

(Dimensions and Photographs are for reference purpose only there may be variation at the time of supply due to constant R & D)

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