



VICKERS CUM BRINELL HARDNESS TESTING MACHINE



OVERVIEW :

- VERTEX make Vickers / Vickers cum Brinell hardness testers are suitable for testing very wide range of materials.
- From very soft material such as lead upto hard material like hardened steel, as well as thin metal strips & case hardened jobs can be tested on these machines since the load applied is very small.
- These machines are available in various models like VB-50, VB-50-S, VB-120-S, VB-250 and VB-250-S which are highly precise and easy to operate as well.
- A push button system is provided for the selection of loads.
- Loading cycle and penetration of the indenter in the job starts.
- Unloading is accomplished through handle and diagonal / diameter of impression directly appears on the screen.
- A built in optical system with graduated readout with micrometer helps the Operator to measure the impression directly on the projection screen.
- This machine conforms to IS-1754-1986 for Vickers and IS-2281-1983, BS-240 for Brinell test.

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VICKERS CUM BRINELL HARDNESS TESTING MACHINE

TECHNICAL SPECIFICATIONS :

Model	VB-50	VB-50-S	VB-120	VB-120-S	VB-250	VB-250-S
Test Loads (kgf)	5,10,15,20, 30,40,50 (Loads for Vickers) 15.625,31.25 (Loads for Brinell)	1,5,10,15,20, 30 40,50 (Loads for Vickers) 15.625,31.25 (Loads for Brinell)	5,10,15,20,30 40,50,60,100, (Loads for Vickers) 15.625,31.25 (Loads for Brinell)	1,2,5,10,15,20,3 0, 40, 50, 60,100,120 (Load for Vickers) 15.625, 31.25,62.5 (Loads for Brinell)	5,10,15,20,30, 40, 50,60,100,120 (Load for Vickers) 15.625,31.25, 62.5, 187.5, 250 (Loads for Brinell)	1,2,5,10,15,20,3 0, 40,50,60,100,12 0 (Load for Vickers) 15.625,31.25, 62.5,187.5,250 (Loads for Brinell)
Optical Magnification	70x, 140x	70x, 140x	70x, 140x	70x, 140x	35x, 70x, 140x	35x, 70x, 140x
Max. Test Height (mm)	250	250	250	250	250	250
Depth of Throat (mm)	150	150	150	150	150	150
Dimension LxWxH (mm) Approx	660 X 320 X 990	660 X 320 X 1130	660 X 320 X 990	660 X 320 X 1130	660 X 320 X 990	660 X 320 X 1130
Net Weight	170	170	170	170	170	170
Connected Supply	0.1 KVA, 1Phase Ac, 220V, 50Hz					
Least Count of optical systems	0.0005	0.0005mm	0.0005mm	0.0005mm	0.0005mm	0.0005mm
Measuring Range possible W.r.t. selected Optical Magnification	1	0-1.3mm on 35x magnification				
	2	0-1.6mm on 70x magnification				
	3	0-0.8mm on 140x magnification				

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