



## OPTICAL BRINELL HARDNESS TESTER



**MODEL – VB 3000**

### **OVERVIEW :**

- VERTEX make Brinell Hardness Testing Machine is most suitable for measuring the hardness of castings, forgings & metals of all kinds.
- This machine is easy to operate & designed to maximise the production.
- Hydraulic power pack with control circuit is provided for effortless loading & unloading through hand lever.
- A dial gauge is fitted on the front side to measure the depth of penetration.
- Microscope with 25 X magnification is provided for measuring Brinell impressions.
- This machine conforms to IS : 2281 / 1983 and BS 240 .

### **VERTEX ENGINEERS & ASSOCIATES**

R.H- 116, Sector 2B, Near Datta Meghe Engineering College, Airoli, Navi Mumbai - 400 708  
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## OPTICAL BRINELL HARDNESS TESTER



**MODEL – VB 3000 (O)**

### **OVERVIEW :**

- VERTEX make optical Brinell Hardness Testing machine is a production testing Machine.
- Operation of the machine is similar to the VB 3000.
- Swiveling mechanism of the ball indenter, Built-in optical systems with 14 x magnification & projection screen with micrometer of least count 0.01 mm are the additional features of this machine.
- This helps the operator to measure the impression directly on the screen without moving the job.
- This machine confirms to IS : 2281 / 1983 and BS 240.

### **OVERVIEW :**

#### **Model VB-3000 (M)**

- This machine is simple in design, loading & unloading is through a manually operated hand lever.
- It is suitable for testing wide range of materials, flat, round or irregular shape.
- Microscope with 25 X magnification is provided for measuring of Brinell impressions.
- This machine confirms to IS : 2281 - 1983 & BS - 240.

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## TECHNICAL SPECIFICATION :

Model	VB-3000	VB-3000(O)	VB-3000(M)
Loads in Kgf	500+3000 in stages of 250	500+3000 in stages of 250	500, 750, 1000, 1500, 2000, 2500, 3000
Initial Load in Kgf	250	Nil	Nil
Max Test Height x Throat (mm)	380 x 200	380 x 200	220 x 150
Machine height mm (Apprx)	1155	1235	870
Size of base mm (Apprx)	385 x 754	385 x 745	275 x 505
Net weight Kg (Apprx)	325	425	210
Drive motor Hp	0.33	0.33	
Mains Supply	415V, 50 Hz 3ph A/c	415V, 50 Hz 3ph A/c	
Indentation Measurement	By separate microscope	Direct reading on projection screen	By separate microscope

## STANDARD ACCESSORIES :

Model	VB-3000	VB-3000(O)	VB-3000(M)
Testing table Ø200mm	1 no.	1 no.	--
Testing table Ø50mm	--	--	1 no.
V groove table for round jobs from 10 to 80 mm	1 no.	1 no.	1 no.
Ball holder 5 mm	1 no.	1 no.	--
Ball holder 10 mm	1 no.	1 no.	1 no.
Test block HB - 5/750	1 no.	1 no.	--
Test block HB - 10/3000	1 no.	1 no.	1 no.
Microscope	1 no.	--	1 no.
Allen keys	1 set	1 set	1 set
Steel ball 5 mm	5 nos.	5 nos.	--
Steel ball 10 mm	5 nos.	5 nos.	5 nos.
Instruction manual	1 book	1 book	1 book

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