

# DIGITAL OPTICAL BRINELL HARDNESS TESTER



## DESCRIPTION:

Digital Optical Brinell Hardness Testing Machine with optical device. Basic machine design and operation is similar to Hydraulic Brinell Hardness tester with built in optical device with 14X magnification provided in front to project diameter of ball impression on glass screen with a micrometer measuring system with 0.01mm least count.

In this machine the indenter swivels and projects diameter of ball impression immediately after unloading operation which avoids additional time for measurement of ball impression. This is a production testing machine and is suitable for foundry, forging shops, heat treatment shops, engineering institutions etc.

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**FEATURE:**

- User-friendly system
- 21 X 8 Line Display
- Keyboard Entry for Serial No, Batch No, Date Time
- Ball diameter / Load Selection : 2.5mm/187.5kgf, 5mm/250kgf, 5mm/750kgf, 10mm/500kgf, 10mm/1000kgf ,10mm/3000kgf
- Ball Type Selection : Tungsten /Steel
- User can set zero and move cursor for X and Y measurement @ Direct BHN reading after pressing BHN key.
- Optional conversion result facility for other scales(Vickers HV, Knoop HK, Tensile Strength KSI, Microficial WMN)
- Battery Backup Real Time clock
- Results displayed in BIG font
- For average option, up to 9 previous readings displayed while measurement
- Batch Facility – User can decide no. of samples in batch
- Batch wise reports and statistical reports on display as well as on printer @ User can scroll report on display with UP/DOWN key @ All Results reports are displayed and Printed on Printer. @ All Reports are transferred on Serial Port.
- RS232C Port Baud Rate is Programmable
- User can use and standard Communication Hyper terminal for capturing data @ Or Banbros can supply capture software. @ 500 results are stored in the system.
- Double optical path design. Both eyepiece and CCD camera path can work at same time. No need switch optical path. Camera can be install inside machine (camera for optional purchase).

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**TECHNICAL SPECIFICATIONS**

<b>Model No.</b>	<b>HOPB-3000D</b>
<b>Load- kgf</b>	2.5mm/187.5kgf, 5mm/250kgf, 5mm/750kgf, 10mm/500kgf, 10mm/1000kgf,10mm/3000kgf
<b>Max. Test Height X Throat (mm)</b>	380 x 200
<b>Depth of elevating screw below base (mm) (approx)</b>	180
<b>Machine height (mm) (approx)</b>	1225
<b>Size of Base (mm) (approx)</b>	380 x 740
<b>Net Weight Kg (approx)</b>	500
<b>Drive motor</b>	0.33 HP
<b>Power Supply</b>	415 3Ph
<b>Indentation measurement</b>	Direct Reading Optical Device with 14X Magnifications.

**STANDARD ACCESSORIES: -**

<b>Item Name</b>	<b>Q'ty</b>
<b>Testing table dia 200mm</b>	<b>1 No.</b>
<b>Testing table dia 70mm with 'V' groove for round jobs dia 10 to 80mm</b>	<b>1 No.</b>
<b>Ball Holder dia 5mm with T.C. Ball</b>	<b>1 No.</b>
<b>Ball Holder dia 10mm with T.C. Ball</b>	<b>1 No.</b>
<b>Test Block HB- 5/750</b>	<b>1 No.</b>
<b>Test Block HB- 10/3000</b>	<b>1 No.</b>
<b>Telescopic cover for elevating screw protection</b>	<b>1 set</b>
<b>Allen Spanner</b>	<b>4 Pcs</b>
<b>Instruction manual</b>	<b>1 Book</b>

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