



BANBROS ENGINEERING PVT. LTD.

The Precision Measurement People

DIGITAL OPTICAL BRINELL HARDNESS TESTER

- *VALUE*
- *VERSATILITY*
- *PERFORMANCE*



BOPF-3000 D

**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 micrometre 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.

TECHNICAL SPECIFICATION:

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

**STANDARD ACCESSORIES:**

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

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, Microfacial 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.