

# Automatic Optical Brinell Hardness Tester

Model : OPFB-A



Machine designed with fully automatic loading, measuring and unloading cycle. A compact hydraulic power pack and control circuit with built in optical device with 14X magnification provided in front to project diameter of ball impression on glass screen with micrometer measuring system with 0.01 mm least count.

## Features:

- Highly efficient yet low cost.
- Automatic spindle up & down
- Dwell time setting
- Measuring range up to 6 mm diameter
- Confirms to IS :2281/2005, BS : 240 & ASTM : E-10

# Automatic Computerized Brinell Hardness Testing Machine

## Model : A-3000 PC



Design of machine is similar to OPFB-A, However with Computerized measurement of Brinell impression. Machine confirm to IS 2281/2005, BS 240 & ASTM E-10.

### Features :

- Automatic spindle up & down
- Dwell time setting
- Measuring range up to 6 mm diameter
- Fully computerized system for indentation measurement & display. Accurate measurement of Brinell Hardness through matched Optics, CCD Camera, hardware and software using advanced image processing technology.
- Windows based software system with well managed database. Windowing facility provided for measurement of bad images due to poor surface finish and other reasons.
- Operating modes : 1) Automatic mode 2) Measuring mode 3) Manual mode The test report consists of machine, sample and test details along with
- Mean Diameter
- Brinell hardness value
- Bitmap image
- Low / high limits of acceptance and accept or reject status.

**Standard Accessories :**

Model	OPFB-3000 A	A-3000 PC
Testing Table dia 200 mm	1 No.	1 No.
Testing Table dia 70 mm with 'V' Groove round jobs 10 to 80 mm	1 No.	1 No.
Ball Holder dia 5 mm with T C Ball	1 No.	1 No.
Test block HB 5/750	1 No.	1 No.
Test Block HB 10/3000	1 No.	1 No.
Allen Spanner	9 Pcs.	9 Pcs.
Instruction Manual	1 Book	1 book

**Technical Data :**

Model	OPFB-3000 A	A-3000 PC
Loads kgf.	250,500 to 3000 in stage of 250	250,500 to 3000 in stage of 250
Max. Test Height X Throat (mm)	380 x 200	380 x 200
Depth of elevating screw below base (mm) (approx)	180	180
Machine height (mm) (approx)	1225	1225
Size of base (mm) (approx)	380 x 740	380 x 740
Nett. Weight kg (approx)	425	425
Drive Motor HP	0.33	0.33
Mains supply	415 V, 50Hz, 3 Ph AC	415 V, 50Hz, 3 Ph AC
Gear Motor – HP	0.5	0.5
Indentation Measurement	Direct reading Optical device with 14X Magnification	With windows based software & with CCD camera

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