

# Brinell

## Hardness Testers



Model : TKB-3000

### TKB - 3000

Machine designed with a hydraulic power pack and control circuit for effortless loading / unloading operation. A dial gauge in front measures depth of ball penetration. This facilitates production testing within tolerance limits by comparison method.

#### Features :

The Brinell Hardness Tester, TKB-3000, is precision engineered conforming to IS : 2281/2005, BS : 240, ASTM-E-10 and is most suitable for production testing. These machines are designed to measure hardness of castings, forgings, other metals and alloys of all kinds, hard or soft, whether flat, round or irregular shape.

A separate hydraulic power pack placed at the bottom, makes the design more stable and easy serviceable.

### OPFB - 3000

FTM has developed Brinell Hardness Testing Machine with optical device. Basic machine design and operation is similar to TKB-3000, 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 0.01 mm 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. This is suitable for foundry, forging shops, heat treatment shops, engineering institutions etc.



Model : OPFB-3000

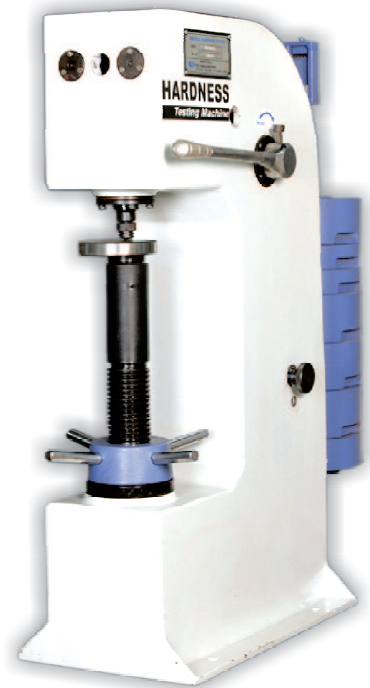
*Mastering the fine art of testing*

## TKB - 3000 (M)

The TKB-3000 (M) Brinell Hardness Tester is a precision engineered Hardness Testing Machine conforming to IS 2281-2005 & BS 240 and ASTM-E-10. This simple mechanical machine features loading / unloading through a manually operated lever. It is most suitable for measuring the hardness of steel and other metals of various shapes.

### Standard Accessories

MODEL	TKB-3000	OPFB-3000	OPFB (SPL)	TKB-3000(M)
Testing Table dia 200 mm	01 No.	01 No.	01 No.	---
Testing Table dia 50 mm	---	---	---	01 No.
Testing Table dia 70 mm with 'V' groove for round jobs dia 10 to 80 mm	01 No.	01 No.	01 No.	---
Ball holder dia 5 mm with T.C. Ball	01 No.	01 No.	01 No.	---
Ball holder dia 10 mm with T.C. Ball	01 No.	01 No.	01 No.	01 No.
Test Block HB - 5/750	01 No.	01 No.	01 No.	---
Test Block HB 10/3000	01 No.	01 No.	01 No.	01 No.
Brinell Microscope	01 No.	---	---	01 No.
Allen Spanner	04 Pcs.	09 Pcs.	09 Pcs.	04 Pcs.
Instruction Manual	01 Book	01 Book	01 Book	01 Book



Model : TKB-3000(M)

### Technical Data

MODEL	TKB - 3000	OPFB - 3000	OPFB (SPL)	TKB - 3000 (M)
Loads-kgf	500 to 3000 in Stages of 250	500 to 3000 in Stages of 250	187.5, 250, 500-3000 in Stages of 250	500, 750, 1000, 1500, 2000, 2500, 3000
Initial Loads-kgf	250	Nil	Nil	Nil
Max. test Height X Throat (mm)	380 x 200	380 x 200	380 x 200	220 x 150
Depth of elevating Screw below Base (mm) (Appx.)	180	180	180	180
Machine Height (mm) (Appx.)	1145	1225	1225	860
Size of Base (mm) (Appx.)	380 x 740	380 x 740	380 x 740	270 x 500
Nett. Weight kg (Appx.)	325	425	325	210
Drive Motor Hp	0.33	0.33	0.33	---
Mains supply	415 V, 50 Hz, 3 Ph	415 V, 50 Hz, 3 Ph	415 V, 50 Hz, 3 Ph	---
Indentation Measurement	By separate Microscope	Direct reading optical device with 14 x Magnification.	Direct reading optical device with 14 x Magnification.	By separate Microscope

Note : FTM Reserves the rights of change in the above specification due to constant improvements in design.

**We also undertake calibration of any make & various types of Testing Machine with NABL certification.**

**Manufactured By : Fine Testing Machines Pvt. Ltd.**



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