

# Material Testing Machines Services

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www.mtmspune.com NABL Accredited Site Calibration Laboratory (C0262)

## Hydraulically Operated Brinell Harness Tester

TKB 3000



OPFB 3000



3000 PC



OPFB-A



### Features

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 14 X 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 swivells 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, heattreatment shops, engineering institutions etc.

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### Standard Accessories

Model	TKB 3000	OPFB 3000	OPFB(Spl)	TKB 3000 (M)
Testing Table dia 200 mm	1 No.	1 No.	1 No.	-
Testing Table dia 50 mm	-		-	1 No.
Testing Table dia 70mm with 'V' Groove for round jobs dia 10 to 80mm	1 No.	1 No.	1 No.	-
Ball holder dia 5 mm with T.C. Ball	1 No.	1 No.	1 No.	-
Ball holder dia 10 mm with T.C. Ball	1 No.	1 No.	1 No.	1 No.
Test block HB -5/750	1 No.	1 No.	1 No.	-
Test Block HB - 10 / 3000	1 No.	1 No.	1 No.	1 No.
Brinell Microscope	1 No.	-	-	1 No.
Allen Spanner	4 Pcs.	9 Pcs.	9 Pcs.	4 Pcs
Instruction Manual	1 Book	1 Book	1 Book	1 Book

### 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
Intial 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	425	210
Drive Motor - HP	0.33	0.33	0.33	--
Mains - Supply	415 V, 50 Hz, 3 Ph AC	415V, 50 Hz, 3 Ph AC	415V, 50 HZ, 3 Ph AC	--
Independence Measurement	By seperate Microscope	Direct reading optcal device with 14 X Magnification	Direct reading optcal device with 14 X Magnification	By Seperate Microscope