

ROCKWELL HARDNESS TESTING MACHINES

Analogue, Analogue Motorised and Digital



Rockwell Hardness Tester



Rockwell and Rockwell Superficial Hardness Tester

HARDNESS TESTER

Rockwell, Rockwell cum Brinell, Rockwell cum Rockwell Superficial

Hardness Testers are designed and developed after years of experience in this field. All the models are manufactured under strict quality control at all manufacturing stages.

These models are suitable for testing hardness of metals and alloys of all kinds, hard or soft, whether flat or round etc. or of irregular shape. These testers are simple in design and easy to operate, still yet quite sensitive and accurate.

These models strictly conforms to IS: 1586-2000, BS: 891 part 1 & 2 for Rockwell & Rockwell superficial test. IS: 2281-1983, ASTM-E-10 for brinell test.

Rockwell System

Automatic weight selection with automatic zero setting dial gauge.

Automatic weight selection with automatic zero setting dial gauge with more testing height and throat.

Rockwell cum Brinell Combined System

Automatic weight selection with automatic zero setting dial gauge.

Arrangement similar to RS with two additional weights of 185.5 kgf and 250 kgf for brinell tests. On this machine small pin having Dia 2 mm can be tested as plunger is guided with a set of six bearings.

Rockwell cum Rockwell Superficial Combined

This hardness tester is similar above machine in construction, and with automatic weight selection. This is useful for carrying Rockwell and Rockwell Superficial tests. The Rockwell Superficial method is useful for checking hardness of very thin sheets and surface hardness.

Motorized Hardness Tester models are also available in the above models.

Application and removal of major load is motorized. Motorized models have semi automatic operations for products testing. Drive motor-single phase, 230-V, 50 cycles AC.

DIGITAL ROCKWELL ,ROCKWELL SUPERFICIAL AND ROCKWELL WITH BRINELL HARDNESS TESTERS



Salient Features

1. Motorized system for application and removal of major load
2. Minor load setting by LED bar graph
3. Keyboard entry for scale selection
4. Hi-Low-OK indication for hardness value
5. Easy to read, large size extra bright 7 segment display
6. Centronics parallel port for connecting Dot Matrix Printer
7. Sufficient error codes for smooth functioning of machines
8. Serial interface (Optional)
9. Least Count 01 for Rockwell and 0.2 for Rockwell Superficial
10. Dwell Time 1 to 99 Seconds
11. Scale Displayed A,B,C,D,E,F,G,H,K,L,M,N,P,R,S,V in Nos. 1 to 15 Resp. and 15N,30N,45N,15 T,30T,45T in Nos. 1 to 21 Resp. for Superficial
12. Indenter is guided in linear bearing facilitates to test small jobs

Technical Specifications

Model	ROCKWELL (Digital)	ROCKWELL CUM BRINELL (Digital)	ROCKWELL AND ROCKWELL SUPERFICIAL (Digital)
Test Loads Kgf	60,100,150	60,100,150 and 187.5 ,250 for Brinell	60,100,150 and 15,30,45 for Rockwell Superficial
Initial Loads Kgs	10	10	10 for Rockwell and 3 for Superficial
Max Test Height mm	215 (295)	295	295
Depth of Thorat mm	132(148)	148	148
Over All Dimensions mm	430 x 180 x 635 (580x270x915)	475 x220x865 (580x270x915)	475 x220x865 (580x270x915)

Standard Accessories :

Rockwell Diamond Indentor	1 No.	1 No.	1 No.
Superficial Diamond Indentor			1 No.
Testing Table Dia 50mm	1 No.	1 No.	1 No.
Testing Table Dia 40 mm with V Groove for Round Jobs 6 to 45 mm Dia	1 No.	1 No.	1 No.
Steel Ball Indentor Dia 1/16 inch	1 No.	1 No.	1 No.
Steel Ball Indentor Dia 2.5 mm		1 No.	
Stell Ball Indentor Dia 5 mm		1 No.	
Test Block HRC	1 No.	1 No.	1 No.
Test Block HRB	1 No.	1 No.	1 No.
Test Block HB2.5mm /187.5Kgf		1 No.	
Test Block 30N			1 No.
Steel Ball Dia 1/16 inch	5 Nos.	5 Nos	5 Nos
Allen Spanners	3 Nos.	3 Nos.	2 Nos.
Clamping Device	1 No.	1 No.	1 No.
Brinell Microscope 25 x Magnification		1 No.	
PVC Cover	1 No.	1 No.	1 No.
Rubber Below for Elevating screw	1 No.	1 No.	1 No.
Instruction Manual	1 No.	1 No.	1 No.

(Dimensions and Photographs are for reference pupose only there may be variation at the time of supply due to constant R &D)

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