

ROCKWELL SUPERFICIAL HARDNESS TESTER

Salient Features

1. Motorised digital Rockwell and Rockwell superficial hardness tester with semi-automatic operation,
2. Minor load setting by LED bargraph.
3. Keyboard entry for scale selection. Hi-Low limits and Dwell time settings, average value, 4 X 5 feather-touch keyboard.
4. Easy to read, la size Extra bright seven segment display.
- 5 - Manual operation available in case of motor failure,
6. Centronics parallel port interface available for connecting dot matrix printer to print Sr. No., Scale selected average value, hardness value and Hi, OK, Low indication.
7. Sufficient error codes for smooth functioning of the machine.

Operation

There are three modes of the machine. For all the three modes, the minor load (3 kg. for Rockwell superficial and 10kg. for Rockwell) is applied manually by raising elevating spindles upto the 'Set' mark on LED bar graph.

Mode-0: Manual Mode - In case of motor failure, this mode should be used. In this mode major load application and removal is by using handle. Hardness value is displayed on four digit display.

Mode-1 : Motorised Mode - In this mode press 'START' Key on Key board so that loading/ dwell / unloading of the major load is effected automatically. Hardness value is displayed on four digit display.

Mode-2: Motorised Automatic Mode - In this mode entire operation is same as mode-1. only difference is, there is no need to press 'START' Key. Loading /dwell / unloading of major load is effected automatically. Hardness value is displayed on four digit display.

Technical Specification of the TSM.DM

- 1) Scales displayed
 - a) Rockwell A,B,C,D,E,F,G,H,K,L,M,PR,S,V in Nos. 1 to 15 resp.
 - b) Rockwell Superficial 15N, 30N, 45N, 15T, 30T, 45T, in Nos 16 to 21 resp.
- 2) Load - Minor 3 kgf for Rockwell Superficial test.
10 kgf for Rockwell I Test.
Major 15 , 30, 45, kgf for Rockw4superficial test.
60, 100, 150, kgf for Rockwell Test.
- 3) Minor load setting -Automatic by LED bar indication.
- 4) Load Control - Automatic (Loading dwell unloading)
- 5) Dwell time - 1 to 99 seconds.
- 6) Maximum test height x throat - 265 x 145mm.
- 7) Pinter Interface Parallel (Centronix)
- 8) Printer (Optional) 80 Col. Dot matrix Printer.
- 9) Power supply 220V, AC 50 Hz.
- 10) Dimensions L 470, W 220, H 830mm. (Approx)
- 11) Weight 135 kg (Approx.)

Standard Accessories

Testing table 50 mm	1 No.
Test table 40 mm with V groove for Round job 6mm to 45mm.	1 No.
Diamond Indentor	1 No.
Steel Ball Indentor 1/16"-	1 No.
Test Block HRC -	1 No.
Test Block HRB -	1 No.
Test Block Rockwell Superficial 'N' Scale	1 No.
Allen Keys	- 3 No.
Clamping Device	-1 no.
Instruction Manual	-1 No'
Plastic cover for machine	-1 No.
Wooden accessory box	-1 No .

Optional Accessories

Steel Ball Indentor	9 1 8 01 /4" 01 /2"
Y 200 mm Testing Table	
Z 70 mm Vee groove table for round jobs 10 mrn to 80 mm	
Vari Rest to support odd shaped jobs	
Jack Rest	
Jorniny Test Fixture	
Dot Matrix Printer	
Eye Ball Anvil	