

# CONSTANT LOAD SHORE A AND D DUROMETER

MODEL : SHR - A - SUPER - Y2K®  
 SHR - D - SUPER - Y2K®



The new Analog Shore Durometer, **Model : SHR-A-SUPER-Y2K** is used for the determination of the indentation hardness of rubber, plastic, leather, wood and other similar materials while **Model : SHR-D-SUPER-Y2K** is used for hard rubbers, ebonite, plastics, graphites and bakelite.

The force is applied by a specially designed spring contained in a load cell screwed on to the body of the tester. The load cell can thus be easily replaced in case of wear & tear after a long use.

To eliminate errors resulting from various contact pressures applied by the operators, these testers have further been provided with very special springs contained in the outer body giving specified contact pressure to the presser-foot as per International specifications irrespective of the operator's hand pressure-resulting in very accurate readings.

These instruments are highly portable.

### THE SALIENT FEATURES ARE

- Slim body, easy to operate.
- Constant contact Pressure Load Cell (Patent pending internationally) to guarantee absolute constant contact pressure to avoid errors in reading due to different pressures applied by operators.
- It gives creep property of rubber.
- Manufactured in accordance with International Standards.

### APPARATUS

The tester consists of the following main parts.

- a) A main body housing a specially designed load cell and constant-load springs
- b) A specially designed analog gauge showing hardness numbers from 0 to 100.

### CONSTANT CONTACT PRESSURE

Specially designed springs in the outer body give a constant specified pressure on to the presser foot as per DIN Standards eliminating errors resulting from various contact pressures of manual operation.

### APPLICATION

These hardness testers have been designed to comply with DIN 53 505 and ASTM-D 2240 and enable the hardness according to Shore to be rapidly determined.

The tests must be performed by mechanically unstressed specimens. The standard specimens should have a dia of 30 mm and a minimum thickness of 6 mm. Thinner materials can be placed layer upon layer till this minimum thickness is achieved. The surface to be tested must be flat and smooth.

Shore A is suitable for softer and medium hard varieties of rubber.

Shore D is suitable for harder rubber and plastics.

### RANGE

Reading graduated from 0-100 Shore Nos.

### TECHNICAL DATA

	<b>Shore-A</b>	<b>Shore-D</b>
Indentor	Truncated Cone	Pointed Cone
Least Count	1 No.	1 No.
Dimensions	45 x 60 x 130 mm	45 x 60 x 130 mm
Net Weight	400 gm	400 gm
Gross Weight	1000gm	1000gm

“BLUESTEEL HOUSE”