

PORTA - GRIP® TESTER

For Precision Rockwell Hardness Testing

MODEL : GRM

An invaluable light weight instrument as a time and money saver for quick, accurate on-the-spot tests reading directly in Rockwell hardness scales.



PRINCIPLE:

The 'C' frame body serves as a spring to apply the load. As pressure is applied to the indenter by means of a hand wheel, the 'C' frame opens ever so slightly.

The movement is transmitted across the frame by means of a lever that actuates the hand on by the indicator dial causing it to rotate. The dial is marked in standard Rockwell loads.

OPERATION:

1. Select the indenter and test block for the Rockwell scale on which tests are to be made. At the beginning of each test turn the dial by means of the bezel so that the indicator hand rests on the 'dot' before applying pressure. Turn the hand wheel slowly to bring the indicator hand to 'SET' - this applies minor load to the indicator. The barrel dial is then turned on the spindle to bring the top line beneath the center line on the magnifier.
2. Turn the hand wheel to apply pressure till the indicator hand rests on the major pressure load corresponding to Rockwell A, B or C scales i.e. 60, 100 and 150 kgs.

Care should be taken to bring the indicator hand exactly to the graduations on the dial. If the hand passes beyond the dial markings a new test should be started; otherwise accurate tests will not result.

3. Turn back the hand wheel to bring the indicator hand back to 'SET' and the reading is taken on the barrel dial through the magnifier: Read column C or column B on the barrel dial when using the diamond or the ball indenter respectively.

Test blocks are supplied for accuracy checks so as to ensure that the tester is reading correctly.

Take a few tests on the test block to make certain that the readings on the barrel dial agree with the marking on the test block. The first two or three tests may be low, until the indenter and anvil have become firmly seated. Tests should be taken on one side of the test block only.



“BLUESTEEL HOUSE”

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BENCH STAND:

'bse' portable hardness tester is easy to use when held in the C.I. bench stand. One can handle test blocks and small pieces with left hand and use the right hand to turn the hand wheel optional.

TECHNICAL DATA:

Capacity	units	: 0-100
Scales		: Rockwell A,B & C and other scales.
Throat depth	mm	: 100
Weight kg		: 1.50
Accessories		: diamond indenter 120°; ball indenter 1/16"; test block for HRC, HRB; flat anvil, adapter and nut.

We reserve the right to change any or all specifications without prior notice.