

UNIVERSAL METAL HARDNESS TESTER

For any homogeneous, non-porous work piece such as tempered steel, unhealed -steel, non-ferrous, light alloys

MODEL : UHM / UHM - AI / UHM - CI



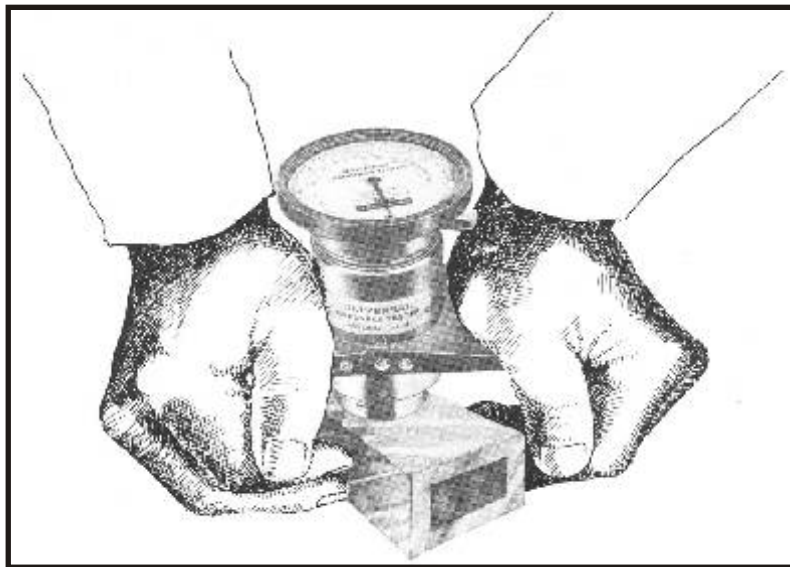
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Industrial Quality Control

Awarded GOLD MEDAL for "Product-Excellence" and "Outstanding Quality" by the German Bureau for Weights, Measures and Quality Testing at the Leipzig Fair, 1985.



PRINCIPLE

The instrument is entirely mechanical in design, eliminating any fragile and therefore problem creating glass-capillaries and other models etc., and is therefore very robust, long lasting and accurate, giving a trouble free life. A simple vertical pressure by hands causes the application of pre-determined load by specially designed and pre-calibrated accurate springs. Any excessive load is taken away by overload-springs. While testing a specimen for its hardness, the load applied on the specimen by the diamond indenter, is balanced against the hardness of the specimen i.e. harder the specimen, lesser is the movement of the indenting assembly showing on the meter the exact hardness of the specimen in required units.



"BLUESTEEL HOUSE"

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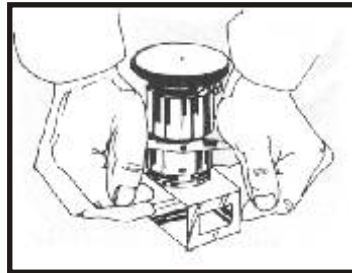
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APPLICATIONS :

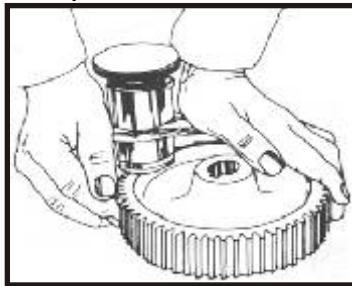
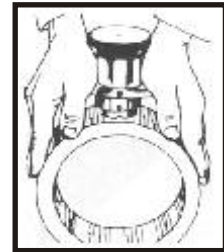
On any homogeneous non-porous work-pieces which are either flat or cylindrical e.g. jigs and fixtures, dies, blocks, rolls etc. Also a must for foundries, forging shops, for castings, forgings, machine tool beds etc.

OPERATIONS :

The simplicity of the tester enables it to be used in almost any direction, preferably vertically, without affecting accuracy. Press the grips by cups of the hands without giving jerks and read the hardness value on the appropriate scale directly.



On the specially designed pre-loaded springs in the tester. Repeatability is excellent and the calibrations can be checked against the reference test block supplied with each instrument.



There is no need for measurement of indentation diameter with microscopes nor there is any need to refer to conversion tables. The reading obtained is completely independent.



FEATURES:

- Simpler and quick testing methods
- Direct indication of hardness in Vickers, Brinell and Rockwell C nos. No change of indentors, no need of conversion tables or calculations.
- Readout independent of applied pressure.
- Useful on work pieces of almost any shape needing only a few sq mm of clean surface.
- For measurement on practically unlimited range of homogeneous materials with clean surfaces, either flat or cylindrical, either thin or heavy specimens such as sheets or castings.
- Used in any position in a vertical or horizontal plane or at an angle.
- Guaranteed for workmanship and material.
- Only a microscopic indentation on specimen which is barely visible and hence no damage to it.