

NEW POLDI TYPE IMPACT HARDNESS TESTER

FOR FERROUS & NON-FERROUS METALS & METALLIC SHEETS

MODEL : PHM - II



APPLICABILITY:

The hammer type Poldi impact hardness tester is useful for simple and quick determination of Brinell hardness of metals such as steel, cast iron and non-ferrous and sheets. Due to its easy handling and maneuverability, this tester is most suitable for testing heavy castings and other components, difficult to be carried to a table type hardness tester.

NEW DEVELOPMENT:

A newly developed Double-Cone-Attachment (Patent pending) which can be interchanged with the conventional 10 mm ball attachment, makes this model: PHM-II suitable to test even thin sheets of 1 mm thickness and above for hardness. Relevant graphs are supplied with the tester for finding hardness of thin specimens.

PRINCIPLE:

Load is applied on the specimen and a standard test bar in a linear direction through a special Brinell ball of 10 mm dia or specially machined double cone for thin specimens, by a hammer blow. The impact load being same, the extent of indentations obtained on the specimen and the test bar depend on their hardness-harder the material less is the depth of indentation. The two diameters of indentations are measured by a special bse Magnifiscope measuring magnifier supplied with the tester. By referring to the table provided, the hardness of the specimen can be determined.

TECHNICAL DATA:

BRINELL BALL	: 10 mm dia. fixed in a special detachable holder.
DOUBLE CONE	: Special detachable holder for thin specimens.
PLUNGER	: Spring loaded for firm contact pressure.
STANDARD TEST BAR	: Each bar individually calibrated and tested; and multiplying factor marked thereon for high accuracy.
MAGNIFISCOPE	: Measuring magnifier.
Measuring range	: 0-10 mm
Scale graduations	: -0.1 mm
Magnification Accuracy of	: -10X
Measurement	: -0.05 mm
HARDNESS GRAPHS	: For thin specimens.
HARDNESS TABLES	: Comparison tables for finding hardness of heavy specimens.
GROSS DIMENSIONS	: 220 x 75 x 50 mm. (Approx)
SPECIFIC USERS OF PHM-II	: Foundries, Sheet metal working, Workshop, Engineering Colleges, Technical Institutions, etc. Useful in any industry where hardness or approximate tensile strength is to be determined.

"BLUESTEEL HOUSE"