VERTEX

POLDI HARDNESS TESTER

The hammer type Poldi impact hardness tester is useful for simple and quick determination of Brinell hardness of metals such as steel, Cast Iron, Brass, Aluminum, Copper etc. Due to easy handling and maneuverability, this tester is most suitable for testing heavy castings and other components.

APPLICATION:

The POLDI hardness tester is the simplest and most economical device for measuring hardness according to Brinell and determining tensile strength of engineered and tool steels, dies, forgings, railway material, beams, sheets, pipes, cast steel and various parts of steel, as well as determining hardness according to Brinell for cast bronze, aluminum, brass, copper, grey and chilled cast iron. The POLDI hardness tester allows the user to perform the impact test with the help of a hammer almost anywhere including: workshops, at assembly sites or any other places. Brinell hardness and tensile strength can be seen in commonly available conversion tables.

FEATURES:

Load is applied to the specimen and a standard test bar in a linear direction through a special Brinell Ball of 10 mm dia. by a hammer blow. With the impact load being consistent, the extent of indentations obtained on the specimen and the test bar depend on their hardness, harder material gives less depth of indentation. The two diameters of indentations are measured by a special “Magnifiscope" measuring magnifier supplied with the tester. By referring to the table provided, the hardness of the specimen can be determined.

SPECIFICATION:

Brinell Ball	10 mm dia. Fixed in a special holder with a spring-loaded plunger
Standard Test Bar	Each bar individually calibrated with multiplying factor markings
Magnifiscope	Measuring magnifier with 7mm scale
Range	7 mm
Scale graduations	0.1 mm
Magnification	10 x
Accuracy of Measurement	0.05 mm
Hardness tables	Comparison Tables for finding hardness
Separate Tables	Steel, Cast Iron, Brass, Copper and Aluminum
Gross dimensions	170 x 65x 40 mm (approx.)