



VERTEX

SHEAR PIN HARDNESS TESTER



This instrument is based on a new but proven constant loading system which produces clear impressions capable of indicating accurate results whether applied statically or dynamically. Loading is guaranteed constant due to a precision pin shearing off under impact.

10 good advantages of pin-brinell hardness tester over conventional poldi type testers using bars:-

- Only one reading is taken which remains as a permanent record for checking in future.
- Constant impact load on specimens guaranteed.
- The pins cover the entire 100-650 Brinell range.
- Smaller and narrower surfaces can be tested.
- One impression measurement means no further computations required.
- Penetrator is longer lasting compared to a standard Brinell Ball.
- Dynamic and Static methods of testing possible.
- Increased accuracy comparable to any other portable Brinell Tester.
- Portable Brinell Tester to measure hard C.I. accurately.
- Tests performed at a faster rate.

Pin Brinell Hardness Tester for Metals

APPLICATION:

The dynamic application of the Pin-Brinell Hardness system is suitable specially when the size of the workpiece makes it difficult or possible to hold in a vice. It is widely used in measuring hardness of castings, forgings, billets, molds, dies, bars, rails, shafts, round & profiled steel sections, sheets from 6 mm and above, coal pulverizers and related equipment.

OPERATIONS:

Prior to each test, a small steel calibrated pin, specially designed and ground for strength and precision, is inserted into the penetrator. Load is applied by the blow of a medium heavy hammer (2 kg) causing the indenter to shear the pin, and an impression is obtained on the specimen. Variations in impact load are immaterial, since only the impact load required to shear the pin is applied on the indenter, and no more. Special tables provided with the instrument give the hardness corresponding to the diameter of impression

SPECIFICATIONS:

Range BHN	100 to 450 with a standard indenter
BHN	230 to 650 with a special carbide indenter on specific order
Dimensions	240 x 115 x 55 mm
Weight	1.25 kg
Accessories	The tester is supplied in a deluxe wooden box with 50 pins, tables & instructions for use, and a 10x MAGNIFI-SCOPE measuring magnifier



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Actual product may differ in color and appearance due to constant development.