

# VICKERS HARDNESS TESTER



Model : VM 50

- Wide Testing Range from Soft metal to medium hardness Steel.
- Motorized loading/unloading.
- Built in Projection Screen to get accurate Result

#### Features :

- Testing range is very wide, from soft metal such as lead, upto the hardest, like hard steel.
- Same hardness number is obtained on the same specimen, regardless of the load applied.
- The indication is tiny and allows testing of a precision finished part.
- Loading and unloading cycle is motorized.
- Thin sheet metal is perfectly tested because the load applied very small.
- Built-in projection screen to get accurate results.

#### Application

Our Vickers Hardness Tester is a simple and accurate means to produce and measure the diamond indentation.

These testers are suitable for measuring the hardness of precision metallic parts with wide testing range - from soft to hard and their accurate results are widely acclaimed.

These testers strictly confirm to IS: 1501-2 and ISO 6507-2.

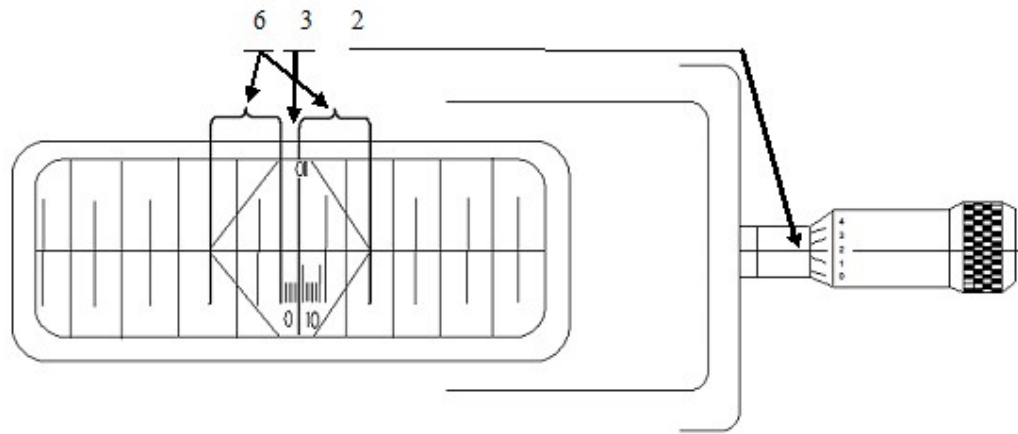
#### Construction

The robust machine frame is designed to accommodate the high precision loading system and an optical projection screen.

Specimen is placed on a testing table. The test cycle is fully automatic.

The accurate load is applied on a diamond indenter by means of a lever and weights. After a specific laps of time, the load is removed automatically. The objective is indexed with the test piece and the diamond indentation is projected on the measuring screen.

The diagonals of the indentation can be measured by means of the micrometer thimble of the projection screen.



Example: - Applied objective with 70 field magnification  
 Length of diagonal of indentation 632 micron = 0.632 mm

#### Technical Specification

Test Loads	5,10,20,30,50 kgf
Optional Test Load	1 kgf
Optical Magnification	70X
Optical Measuring Range (mm)	0.1 to 1.0
Maximum Height (mm)	200
Scale least count (mm)	0.001
Diagonal measuring range (mm)	0.05 to 0.4
Throat Depth (mm)	135
Machine Dimension (mm)	L585 X W290 X H860
Weight (approx)	70 kg.
Power Supply	220 VAC, 50 Hz, 1-Phase

#### Standard Specification

Standard Test Block	1 No.
Diamond indenter	1 No.
Weight	1 Set
Flat Anvil	1 No.
Vee-type anvil (small & Big)	1 No. each
Spanners	1 set
Electric Cord	1 No.
Halogen Lamp	1 No.
Screen Assembly	1 No.
Operating Manual	1 No.



## ELECTROMECH ENGINEERS

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