



# SCRATCH HARDNESS TESTER

CODE: 10003



## STANDARDS CONFIRMED TO :

BS 3900 Part E2 / ISO 1518 1992, BS 6497, ASTM D5178 199. **Optionally ASTM D2197 and D5178**

## APPLICATION & PRINCIPLE:

Life of Coatings depends on various parameters which includes hardness. Testing of coating hardness indicates the maximum resistance the coatings can offer to external force. The process involves dragging of a 1mm ball indented needle on a smooth, coated surface under varying load from 100gms. to 10 Kg.

## DESCRIPTION AND CONSTRUCTION :

Consists of a smooth and linear sliding platform which moves under a 1mm ball indenter, with the required load under a fixed speed. The one side coated panel is fixed to the platform. The automatic versions operate on 230V, 50 Hz. 1 phase AC supply whereas the manual operates on a 9V single battery.

The systems indicate scratch by means of a buzzer and indicator which turn on when the needle touches the base metal. The automatic systems additionally have a voltmeter to indicate the level of coating failure and automatically disengage the needle from the panel when returning to home position.

Test Panel size : 150 x 100 x 1mm

## STANDARD ACCESSORIES

- Ball Needle indenter 1 no.
- Weight 100gms 1 no.
- Weight 200gms 2 no.
- Weight 500gms 1 no.
- Weight 1000gms 1 no.
- Weight 2000gms 1 no.

## MODELS:

- 10003-00 : Manual Scratch hardness tester  
10003-01 : Automatic scratch hardness tester 10 Kg. Load  
10003-02: Mar test attachment (**Automatic model only**)

## OPTIONAL ACCESSORIES

- Mar test attachment
- Additional Weights
- SS Weights
- Calibration certificate



**DESIGNED & MANUFACTURED BY:**



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