



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

MATERIALS MANAGEMENT DIVISION

Powai, Mumbai - 400076

PR No. 1000028929

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**Technical specification of Automated Softening point of Bitumen  
Digital, Automatic Ring and Ball Apparatus**

Ring and ball apparatus automatically determine the softening point of asphalts. Two laser sensors detect the fall of the ball, detecting and recording the softening point of the test material.

Specifications

1. Standard Conformation: ASTM D36;AASHTO
2. T53;EN 1427;BIS 2000;DIN 52011;UNE 7111
3. User Interface: Touch Screen Graphical
4. Output Required: Data Logging, Results, Analysis and Graphs
5. Bath Temperature: 5 deg Celsius/minute (Perpetual Temperature Gradient), and variable
6. heating rate arrangements
7. Stirring Range: 0 to 160 rpm
8. Temperature Range: Water: 30 to 80 deg Celsius
9. Glycerol: 80 to 150 deg Celsius
10. Data Transfer: USB Flash Drive/SD Card
11. Output Data: Excel File
12. Steel Ball: 9.5 mm dia (15-20 Nos.)
13. Ring: Tapered -Chromed Brass
14. Centring Guide: Chromed Brass
15. Beaker: 600 ml Pyrex (No. 3)
16. Calibration Rods: 2 in no.
17. **Warranty is 12 months from the date of installation and commissioning.**