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| **SUPERPAVE GYRATORY COMPACTOR****SUPERPAVE GYRATORY COMPACTOR**

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|  | **Name of the equipment:** Superpave Gyratory Compactor**Make & Model:**MATEST B041-01**I-Stem Registration ID-** **……………………..** **Category of Instrument**Sample Preparation**Types of Analysis / Testing**To compact asphalt mix**Application:** The Superpave Gyratory Compactor is used to compact asphalt mix into cylindrical specimens and it simulates real-world road paving conditions, determining the compaction properties of asphalt.**Description of Instrument**An instrument designed to compact asphalt mix into cylindrical specimens using a heavy, rotating ead driven by an electro-pneumatic motor. |
| **Book through I-STEM:**<https://www.istem.gov.in/>**Slot Booking Link**I-STEM Slot Booking link for External User | **Booking Details****Booking available for**Internal and External Both**Requisition form for**[Internals](https://randc.nitc.ac.in/pdf/instruments/civil/CED-REQUISITION_FORM_Internal.pdf)[Externals](https://randc.nitc.ac.in/pdf/instruments/civil/CED-REQUISITION_FORM_Internal.pdf) |

**Contact Details**

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**Features, Working Principle and Specifications** **Type of Sample Required for Analysis / Testing (Quantity, Pre-Preparation, State etc.) Guidelines for Sample Submission – User Instructions**

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| **Features of the equipment*** Automatic compaction
* Precision angle control
* Touch-screen interface
* Remote test control
* Unlimited memory storage
 | **Unique features/Measurement capabilities, if any*** Gyratory motion for real-world compaction simulation
* Internal angle control (1.16° for ASTM, 0.82° for EN)
* Precise load application with electro-pneumatic cylinder
* Remote test control through dedicated software
 |
| **Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)*** Power supply: 230V 1ph 50/60 Hz 1000W 12A
* Dimensions: 640x510xh1400 mm
* Weight: 260 kg approx.
* Standards: Meets ASTM and EN standards
 | **Measurement/Sample specifications:** * Sample Size: 150 mm (6 in) diameter x 63.5 mm (2.5 in) height
* Sample Weight: Up to 10 kg (22 lbs)
* Sample Material: Asphalt mix, soils, and emulsion-based mixes
* Sample Temperature: Room temperature to 120°C (248°F)
* Sample Moisture Content: Up to 10% moisture content
 |

**User Charges Rs. (GST Extra)**

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| * Quantity: 1-2 kg (2.2-4.4 lbs)
* Sample Type: Asphalt mix, soils, or emulsion-based mixes
* Pre-preparation: None, but sample must be free of contaminants and water
* Type of Samples to be Analyzed: Compaction properties, density, and moisture content
* Minimum No. of Days Required for Analysis: 1-2 days
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| **Internal** | **External Academic Institutes** | **National R&D Lab** | **Industry** |
| 500/- per test | 500/- per test | 1000/- per test | 2000/- per test |

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