**Four Ball Tester**

|  |  |
| --- | --- |
| https://lh7-rt.googleusercontent.com/docsz/AD_4nXdlHGwMpXECGS0TpSx7L1zG1myVg5mNXf_btcv1-1sAsiUtRznTAakLZhmrtnr8hwwEga_qAN77mkF_n4fARiPwUV_rCSll8C3_7zLQR2B_RYi3h8Rlogfo9ZHNLcbYHBJHKj8cMe5MLD0HvanUSJEa9xtpw81k-Vq63uP62qm333hp0Wz_0aQ?key=-4xXS4rTKElPJ5_LFbsF5LlW | **Name of the equipment:** Four Ball Tester**Make & Model:**Magnum & TE-4B-L 144/2014**I-Stem Registration ID-** 3224913**Category of Instrument**Characterization Tool**Types of Analysis / Testing**Testing**Application:** Determining the Coefficient of Friction of lubricants. |

**Booking Details**

|  |  |
| --- | --- |
| **Book through I-STEM:** <https://www.istem.gov.in/>**Slot Booking Link**[I-STEM Slot Booking link for External User](https://www.istem.gov.in/equipment-info/24913/Pin-on-Disc-Tribometer-and-Four-Ball-Tester) | **Booking available for**Internal and External Both**Requisition form for** [Internals](https://randc.nitc.ac.in/pdf/instruments/med/20.%20Internal.pdf)[Externals](https://randc.nitc.ac.in/pdf/instruments/med/20.%20External.pdf) |

**Contact Details**

|  |  |  |
| --- | --- | --- |
| **Faculty In-charge:** Dr.Amit Kumar Singh**Email ID:**amitsingh@nitc.ac.in**Phone number:** +91-8949362395 | **Technical Staff:**Eldho P Varghese (TA SG II) epv@nitc.ac.inShibin (Senior Technician) shibinr@nitc.ac.in | **Department**MED**Office Email ID**medoffice@nitc.ac.in**Location**Room No. 101 MSED Department Building **Lab Phone No**0495-2286485 |

**Description and Technical Specifications**

|  |  |
| --- | --- |
| **Description of Instrument:** This instrument is used to measure the Coefficient of Friction and Performance of lubricants by measuring the scar diameter.**Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)** |  |
|

|  |  |
| --- | --- |
| Speed  | 100 to 2000 rpm  |
| Normal Load  | 0.5 to 800kg  |
| Leverage Ratio  | 13:1  |
| Temperature  | Up to 100 ͦ C  |

 |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Internal** | **External Academic Institutes** | **National R&D Lab** | **Industry** |
| 100/- per hour per sample (i.e. If the time taken to test a sample exceeds 1 hr then the user charge will be based on per hour) | 500 + 18%GST per sample per hour (i.e. If the time taken to test a sample exceeds 1 hr then the user charge will be based on per hour) | 500 + 18%GST per hour per sample (i.e. If the time taken to test a sample exceeds 1 hr then the user charge will be based on per hour) | 1000 + 18%GST per hour per sample (i.e. If the time taken to test a sample exceeds 1 hr then the user charge will be based on per hour) |