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| https://lh7-rt.googleusercontent.com/docsz/AD_4nXeisQjXdzQiV6RqWgZrSpZeMsQhCrdoDeqUPCve3OYVTluEL1nWEvJ1DGnY_CbR7xBq036FwQ9ywn26lu_bKihSJb3BEcQuNG2ZU3_iGBpc-O8FOlf6xCzUYkLgGgx63JLTKZSIKJRMPelQGH---sNtSjaludx9MsTiz0jBazjxwVMiFQDqJfQ?key=nKqwxJqMKkrRJ1258v90zA | **Pin-On-Disc Tribometer**  **Name of the equipment:**  Pin-On-Disc Tribometer  **Make & Model:**  DUCOM & TR 20 NEO SERIES 1420  **I-Stem Registration ID-**  3245822  **Category of Instrument**  Characterization and Testing Tool  **Types of Analysis / Testing**  Testing  **Application:**  Friction and Wear characteristics of Ball Samples |

**Booking Details**

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| **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/45822/Pin-on-disc-tribometer) | **Booking available for**  Internal and External Both  **Requisition form for**  Internals  Externals |

**Contact Details**

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| **Faculty In-charge:**  Dr.Amit Kumar Singh  **Email ID:**  [amitsingh@nitc.ac.in](mailto:bgnair@nitc.ac.in)  **Phone number:**  +91-8949362395 | **Technical Staff:**  Shibin (Senior Technician) [shibinr@nitc.ac.in](mailto:sandhyadevism@nitc.ac.in)  Hari Krishnan K (Technician)  [[harikrishnank](mailto:sandhyadevism@nitc.ac.in)](mailto:harikrishnank@nitc.ac.in)[@nitc.ac.in](mailto:sandhyadevism@nitc.ac.in) | **Department**  MED  **Office Email ID**  [medoffice@nitc.ac.in](mailto:sbtoffice@nitc.ac.in)  **Location**  Room No. 101 MSED Department Building  **Lab Phone No**  0495-2286485 |

**Description and Technical Specifications**

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| --- | --- |
| **Description of Instrument:** It is an equipment used to find the Coefficient of Friction of lubricants. Here the spherical ball clamped in a holder which is reciprocating to & fro along a cylindrical disc which is fixed at the bottom holder filled with lubricant. |  |
| **Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)**   |  |  | | --- | --- | | Top Specimen Ball | ϕ6mm | | Bottom Specimen Plate | ϕ10 x 3mm | | Frequency Range | 10-60Hz | | Load | 1 to 10N | |  |

**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 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 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) |