|  |  |
| --- | --- |
| **VIBRATORY SIEVE SHAKER**  | **Name of the equipment:** Vibratory Sieve Shaker**Make & Model**Retsch, Germany AS 300 CONTROL**I-Stem Registration ID-** **Category of Instrument:**Particle Size Analysis**Types of Analysis / Testing:**Granulometric (sieve) analysis**Application:**Separation and classification of particles based on size**Description of Instrument**The Vibratory Sieve Shaker uses controlled vibrations to separate particles through a stack of sieves, enabling accurate determination of particle size distribution in powders and granular materials. |

**Booking Details**

|  |  |
| --- | --- |
| **Book through I-STEM:** <https://www.istem.gov.in/>**Slot Booking Link**I-STEM Slot Booking link for External User | **Booking available for**Internal and External Both**Requisition form for** InternalExternal |

**Contact Details**

|  |  |  |
| --- | --- | --- |
| **Faculty In-charge:** Dr. Murali KP**Email ID:**kpmurali@nitc.ac.in **Phone number:** 0495-2286414 | **Technical Staff:** Sanal PR (TA SG I) sanal@nitc.ac.in Jithin Krishna M (TA)jithinkrishnam@nitc.ac.in Jijeesh k (ST) jijeeshk@nitc.ac.in | **Department**MED**Office Email ID**medoffice@nitc.ac.in**Location**Material Science LabProduction Block**Lab Phone No**0495-2286450 |

**Features, Working Principle and Specifications**

* **Feed material**: powders, bulk materials, suspensions
* **Measuring range\***: 20 µm - 40 mm
* **Sieving motion:** throwing motion with angular momentum
* **Max. batch / feed capacity** :6 kg
* **Max. number of fractions:** 11 / 17
* **Max. mass of sieve stack** :10 kg
* **Amplitude**: digital, 0.20 - > 2.20 mm
* **Controlled amplitude:** Yes
* **Sieve acceleration** :1.0 - > 10.0 g
* **Time display:** digital, 1 - 99 min
* **Interval operation:** 1 - 99 s
* **Storable SOPs:** 99
* **Suitable for dry sieving:** Yes
* **Suitable for wet sieving:** Yes
* **Serial interface:** Yes
* **Including test certificate / can be calibrated:** Yes
* **Suitable sieve diameters:** 100 mm / 200 mm / 203 mm (8") / 305 mm / 315 mm
* **Max. height of sieve stack:** 510 mm
* **Clamping devices:** standard, "comfort", each for wet and dry sieving
* **Protection code:** IP 21
* **W x H x D:** 417 x 220 x 384 mm
* **Net weight:** ~ 42 kg

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

|  |
| --- |
| * Sample Type: powdered samples
* Maximum No. of Samples Accepted at a Time- 1
* Minimum No of Days Required for Analysis – 2 Days
 |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Internal** | **External Academic Institutes** | **National R&D Lab** | **Industry** |
| 300/- per hour | 600/- per hour + GST | 600/- per hour + GST | 600/- per hour + GST |