

PLANETARY BALL MILL

Photo of Instrument:



Instrument Name	PLANETARY BALL MILL
Instrument Model & Serial No.	PM 100
Instrument Make	Retsch, Germany
Category of Instrument	Powder metallurgy
Description of Instrument	Capable of performing pulverizing, mixing, homogenizing, colloidal milling, mechanical alloying of powders
Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)	Material feed size: < 1 mm Speed ratio: 1 : -2 Sun wheel speed: 100 - 650 min ⁻¹ No. of grinding stations: 1 Grinding jar sizes: 500 ml Grinding ball size: 5mm Setting of grinding time: digital, 00:00:01 to

Department of Mechanical Engineering, NIT Calicut

	99:59:59 Interval time: 00:00:01 to 99:59:59 Pause time: 00:00:01 to 99:59:59 Drive power: 750 W
Application of Instrument (Limited to Major 4 or 5)	pulverizing, mixing, homogenizing, colloidal milling, mechanical alloying of powders
Type of Sample Required for Analysis / Testing (Quantity, Pre-Preparation, State etc.) Guidelines for Sample Submission – User Instructions	10-100gms of powder with size of particles less than 1 mm
Types of Analysis / Testing	Manufacturing
Faculty In-Charge Name / Email / Contact	Dr K. Sekar 9746562695 sekar@nitc.ac.in
Technical Staff Name / Email / Contact	Mr. Sanal P R sanal@nitc.ac.in 9497186556
Location of Instrument	Materials Science Lab Production Engineering Block
Other Details	

User Charges:

S.NO.	Type of Analysis / Testing	Internal - within Department of NITC	Internal - Other Departments NITC	External Academic Educational Institutes	National R&D Labs	Industry
1	Milling	300/hour	300/hour	600/hour	600/hour	600/hour

Slot Booking and Payment Work Flow: