Department of Mechanical Engineering, NIT Calicut

PIN ON DISC TRIBOMETER

Photo of Instrument:

Instrument Name	PIN ON DISC TRIBOMETER
Instrument Model & Serial No.	TR 20 NEO SERIES 1420
Instrument Make	DUCOM
Category of Instrument	Characterization and Testing
Description of Instrument	The apparatus facilitates the study of friction and wear characteristics in sliding contacts, sliding occurs between the stationary pin and a rotating disc. The normal load, rotational speed, temperature, humidity and wear are the variables to meet the test conditions.
Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)	
Application of Instrument (Limited to Major 4 or 5)	Pin-on-disk testing is used for material screening, wear characterization, and durability assessment of a pin or a ball specimen.

Loads	5N to 200N
Speed	200 to 2000 rpm
Specimen	Pin Size: ϕ6 & ϕ10mm Ball Size: ϕ6 & ϕ10mm
Wear Disc Size	ϕ165mm x 8mm thick

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Type of Sample Required for Analysis / Testing (Quantity, Pre-Preparation, State etc.) Guidelines for Sample Submission – User Instructions	<table><tr><td>Specimen</td><td>Pin Size: ϕ6 & ϕ10mm Ball Size: ϕ6 & ϕ10mm</td></tr><tr><td>Wear Disc Size</td><td>ϕ165mm x 8mm thick</td></tr></table>
Types of Analysis / Testing	Study Friction and Wear Characteristics.
Faculty In-Charge Name / Email / Contact	Dr. Amit Kumar Singh amitsingh@nitc.ac.in 8949362395
Technical Staff Name / Email / Contact	Mr. Eldho P Varghese epv76@nitc.ac.in 9447278215
Location of Instrument	TRIBOLOGY LAB
Other Details	

User Charges :(per sample)

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	Study Friction and Wear Characteristics.	Nil	100	500 + Gst (18%)	500 + Gst (18%)	1000 + Gst (18%)

Note: Consumables and any other expenditure charges will be as per requirement, if any.

Slot Booking and Payment Work Flow: