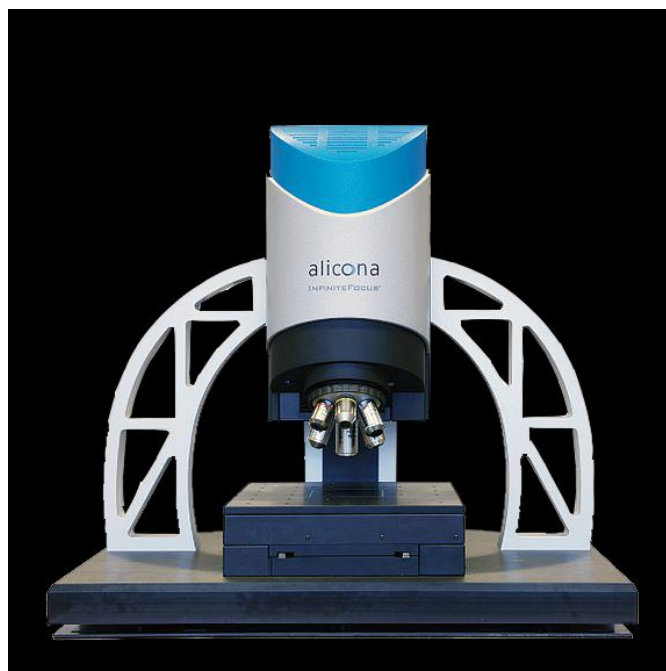


3D PROFILOMETER

Photo of Instrument:



Instrument Name	3D PROFILOMETER
Instrument Model & Serial No.	Model- Infinite Focus G5
Instrument Make	BRUCKER
Category of Instrument	Characterization and Testing
Description of Instrument	Capable of performing non-contact 3D surface roughness, micro geometry, form measurements, etc. Also, this instrument can generate, capture and display point cloud of high density, registered true colour information.
Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)	Travel range in XY 100 mm X 100 mm motorized Travel range in Z -100 mm motorized 6 Objectives 2.5X, 5X, 10X, 20X, 50X, 100X Min measurable radii 1 μ m Finest lateral resolution 0.44 μ m for 100x objective 3D rotation unit for capturing 3D data points
Application of Instrument (Limited to Major 4 or 5)	1.Surface roughness measurement (2D and 3D) 2.Area measurement after corrosion 3.Thickness measurement 4.Tool nose measurement and wear measurement

Department of Mechanical Engineering, NITC

Type of Sample Required for Analysis / Testing (Quantity, Pre-Preparation, State etc.) Guidelines for Sample Submission – User Instructions	Metallic/composite/alloys etc., Maximum size usually limited 100mm x 100mmx100mm
Types of Analysis / Testing	Surface profile measurement
Faculty In-Charge Name / Email / Contact	Dr Jose Mathew 0495 2286405 josmat@nitc.ac.in
Technical Staff Name / Email / Contact	Mr. Unni Krishnan kishan@nitc.ac.in 9495257522
Location of Instrument	DIST- FIST Centre
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	Surface profile	150/hour	300/hour	300/hour	300/hour	300/hour

Slot Booking and Payment Work Flow: