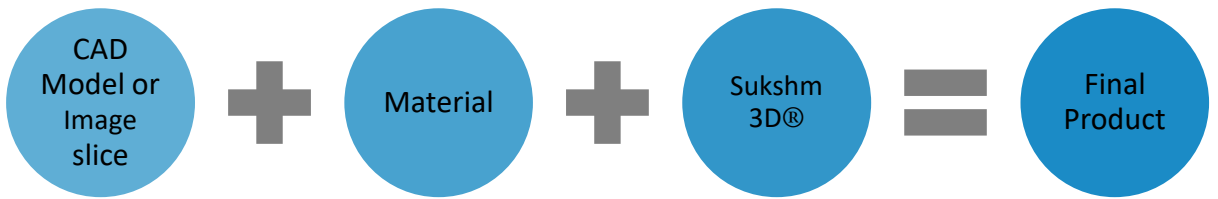




Unleash Your Creativity.

The simple 1-2-3 process of micro additive manufacturing using Sukshm3D®

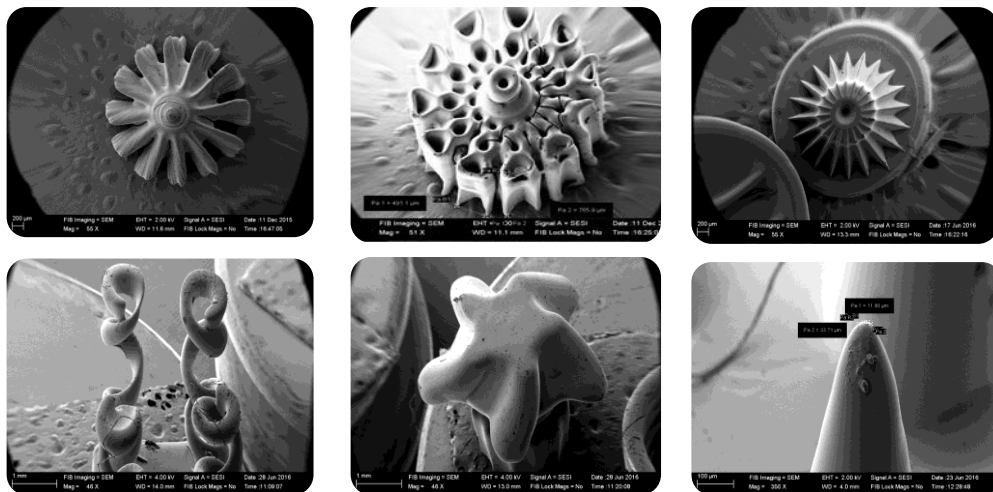


Sukshm3D®

Micro rapid prototyping

A product of  Central Manufacturing Technology Institute

The revolutionary micro-fabrication system enables complex 3D ultra fine solids to be made in a short time by means of spatial light modulation technique.



Various complex micro 3D components fabricated by Sukshm 3D[®]

Technical specifications:

Light source	UV Lamp (365 nm) customizable to UV LED (385nm/405nm)	Lamination layer pitch	5 μ m - 50 μ m (Machine accuracy: 0.5 μ m)
Image modulation	Digital Micro-mirror Device (DMD) based Spatial Light Modulation	Monomer	Photo curable at 365nm
Exposure resolution	5 μ m Minimum	Interface	Dedicated I/F software for effective control
Spot size	Minimum 10 μ m ² Maximum 20mm x 10mm	Power supply	220V AC, 50Hz, 5A
Fabrication range	Maximum 20 x 10 mm x 25 mm (customisable to 80mm x 40mm x 50mm)	Dimensions	1200mm (W) x 900mm (D) x 1,700 (H) mm
	Minimum 5 μ m x 5 μ m x 5 μ m	Weight (Gross)	Approx. 500 kG
Environmental Conditions			
Temperature			25 ^o C+/-2
Humidity			50 to 70%
Clean Room Class			10,000

Applications:

- Fabrication of complex 3D Micro components (Polymer and Ceramic)
- MEMS sensors , actuators, and micro bellows
- Micro fluidic channels and micro fluidic devices
- Bio medical Implants like coronary stents & scaffolds
- Micro moulds and lenses for optics industry
- Micro mixers and micro pumps

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