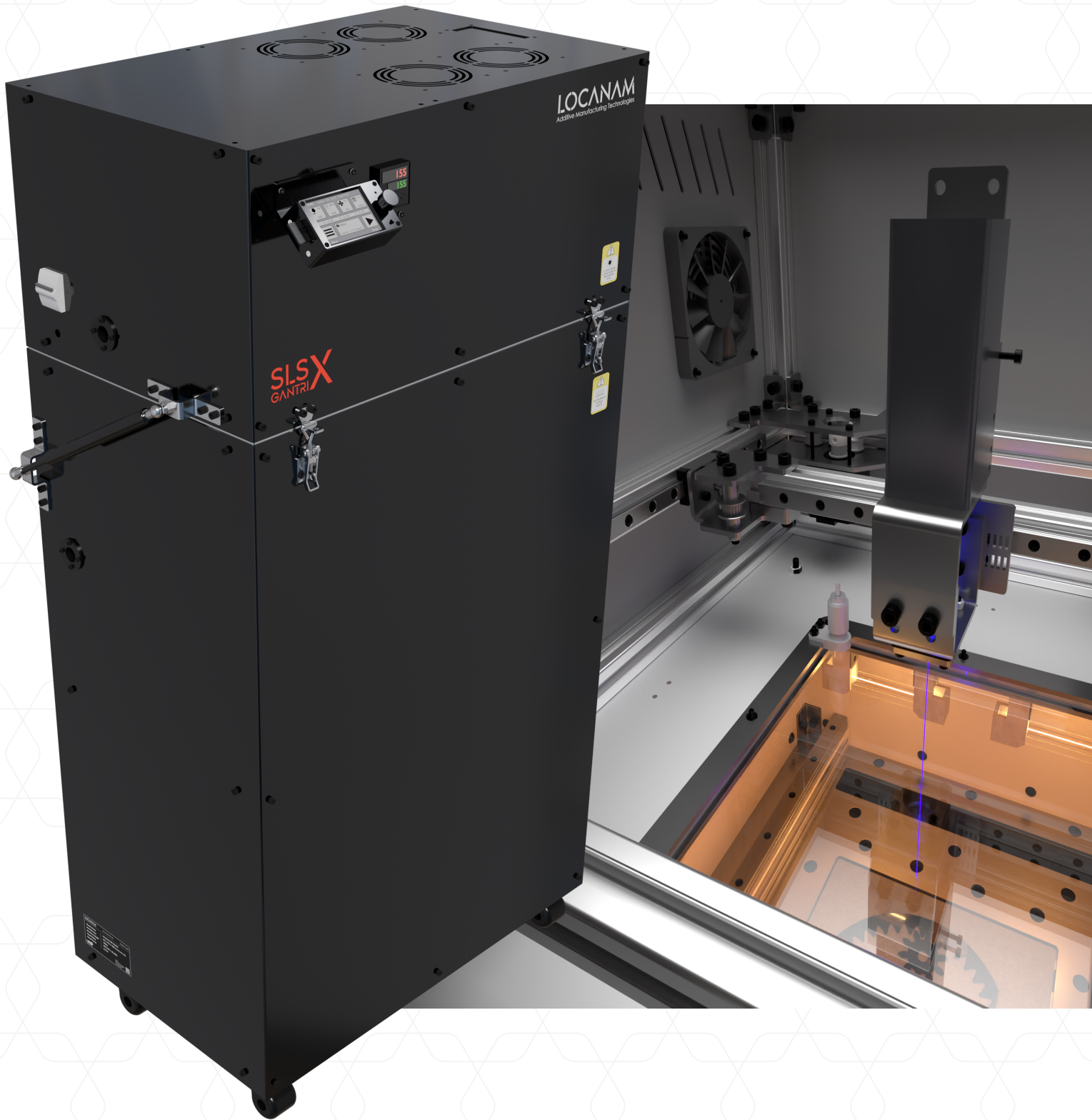


# LOCANAM

Additive Manufacturing Technologies



# SLSX GANTRI

Desktop SLS For Every Workspace

## Key Features

### Affordable Desktop SLS Solution

A cost-effective yet powerful Desktop SLS Machine that comes with a core XY Laser Gantry

### Advanced Print Chamber Heating System

Equipped with an advanced print chamber heating system, it ensures consistent part quality

### Accurate Temperature Management

Real time temperature management with accuracy of  $\leq 1.0^{\circ}\text{C}$

### High Speed Recoater

A high speed recoater with a rack and pinion mechanism provides better layer quality

### No Supports Structures

Requires no supports which saves a lot of time as well as gives more design flexibility

### End-use Parts

Can print high strength and durable end-use parts

### Supports Wide Range of Materials

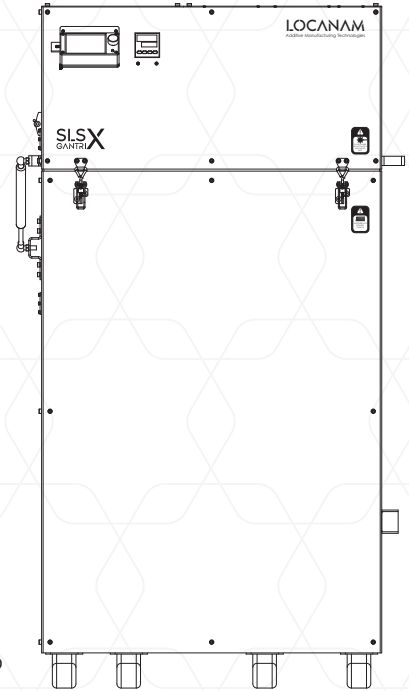
A wide range of materials can be used offering design flexibility for different applications

### Easy Accessibility

The top box is designed for easy access, simplifying material filling, part removal, and cleanup

### Easy To Relocate

Wheels are provided for effortless repositioning of the machine from one place to another



## Industries & Applications

### Aerospace & Defence

#### Lightweight Components

Produce durable, lightweight parts to enhance aircraft performance and fuel efficiency.

#### Complex Geometries

Fabricate intricate designs with internal channels and lattice structures for optimized functionality.

#### End-Use Parts

Functional parts such as drone frames, lightweight satellite components with intricate features.

### Automotive

#### Rapid Prototyping

SLS allows rapid prototyping and quick iteration of complex designs, speeding up product development.

#### Vehicle Accessories

Durable parts such as custom brackets, gear knobs, seat mounts, dashboard inserts and much more.

### Robotics

#### Assembly Free Design

With SLS intricate parts such as custom prosthetic hand with ball joint can be easily printed.

#### Gears & Actuators

SLS can be used to create gears and actuators with complex geometries and high precision.

### Healthcare

#### Prosthetics & Implants

Tailored prosthetic limbs designed for better mobility and comfort.



## Technical Specifications

Machine Type	Desktop SLS
Model Name	SLS GANTRIX
Machine Weight	100 kg
Machine Dimension	663 x 413 x 1330 mm (L x B x H)
Printable Build Volume	150 x 150 x 150 mm (L x B x H)
Layer Thickness	0.1 To 0.3 mm
Laser Spot Size	100 microns
Laser Motion Type	Core XY Gantry
Laser Type	5 W Diode Laser
Working Temperature	150 To 200 °C
Pre Heat Time	< 50 Min
Powder Bin Capacity	5.9 kg
Materials	Nylon PA-12 & more
File Formats	STL & OBJ
Electricity Specifications	220-240 V, 50 Hz
Peak Power Consumption	2.5 kw
Average Power Consumption	1.5 kw
Mobility	Equipped with wheels
Control System	3.5 inch Touch Screen
Build Accuracy	± 0.2mm



### Design Guidelines for Reliable Printing

Minimum Wall Thickness for Reliability (The machine is capable of printing down to 0.5 mm)	1.3 mm
Dimensional Tolerances	± 0.2 mm
Minimum Clearance for Mating Parts	0.75 mm
Minimum Feature Size for Reliability (The machine is capable of printing features as small as 0.5 mm)	1.0 mm

## Material Properties

Physical	Typical Value	Unit	Test Condition
Packed Density	0.63	g/cm <sup>3</sup>	23°C
Particle Size (D50)	55	µm	23°C
Part Density	0.96	g/cm <sup>3</sup>	23°C

Physical	Typical Value	Unit	Test Condition
Tensile Strength	0.63	g/cm <sup>3</sup>	50mm/min
Tensile Modulus	55	µm	50mm/min
Elongation at Break	25	%	50mm/min
Flexural Strength	25	%	5mm/min
Flexural Modulus	0.96	g/cm <sup>3</sup>	5mm/min
Izod Impact Strength (Unnotched)	0.96	g/cm <sup>3</sup>	23°C
Izod Impact Strength (Notched)	0.96	g/cm <sup>3</sup>	23°C

Physical	Typical Value	Unit	Test Condition
Melting Temperature (Powder)	185	°C	10°C/min
Melting Temperature (Sintered Part)	178	°C	10°C/min
Heat Deflection Temp. (0.45 MPa)	120	°C	120°C/h
Heat Deflection Temp. (1.8 MPa)	84	°C	120°C/h

**Kindly Contact Us For A Demo!**



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