



Industrial 3D Printing Systems for Precision Manufacturing

VP · PBF · PAM Technologies — Resin · Powder · Pellet



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www.nxg3d.com

About Us

NXG3D is a systems integrator specialized in industrial 3D printing technologies for precision manufacturing.

We select reliable additive manufacturing platforms and pair them with qualified materials, technical support and training — a single point of contact from choosing the right technology through ongoing after-sales support.



Complete Portfolio

Three additive technologies — resin, powder, pellet — to cover every production need.



A Single Point of Contact

Machines, materials, support and training in a single supply.



Industrial-Grade Quality

Systems built for continuous production, not just prototyping.



Dedicated Support

Technical support and spare parts to keep your lines running.

What We Offer

A portfolio of industrial 3D printing systems organized into three technology families, covering every need from prototyping to series production.



Luxform Series

Maximum surface detail and dimensional accuracy, from benchtop to large format.

5 models · 600–2700 mm



Sinterix Series

Strong, functional nylon parts, ready to use, with no support structures required.

2 models · 260–440 mm



Granuflow Series

High-throughput large format for molds, furniture and large-scale parts.

3 models · 800–3000 mm

Vat Photopolymerization

Luxform Series

Vat Photopolymerization (VP) uses a UV laser to selectively cure liquid resin, layer by layer, producing smooth surfaces, high detail and excellent dimensional accuracy — from benchtop systems to large-format industrial production.



Advanced Printing Efficiency

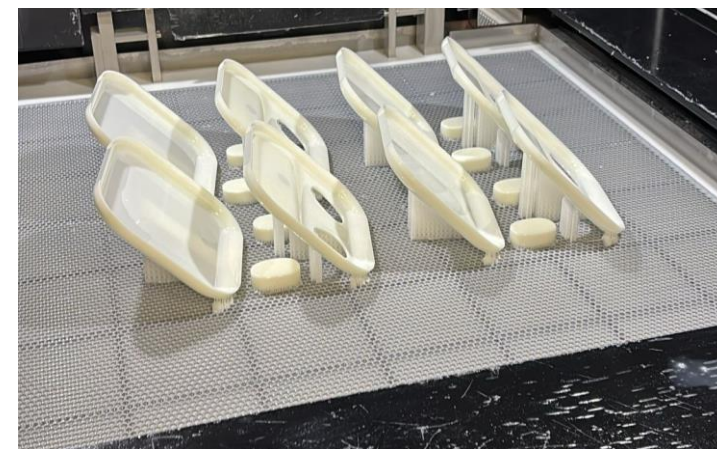
- Intelligent high-speed scanning system, 15 m/s
- Variable laser spot and power
- Automatic upskin and downskin recognition
- Dedicated parameter database for every layer thickness



Long-Term Printing Stability

- Key components from leading international brands
- Full marble structure for maximum stability
- High-rigidity recoater for accuracy and efficiency
- Multi-head compensation for uniform curing

Print Examples



Compatible Materials

 OPEN MATERIAL SYSTEM

Luxform systems run on an open resin platform: no proprietary cartridges or material locks, full compatibility with qualified third-party photopolymer resins.

General Purpose

ABS-like rigid resins in white, black and other tones for master patterns, concept models and functional prototypes.



Transparent & Clear

High-clarity resins for parts requiring optical transparency: lenses, fluid paths, medical and electronics applications.



High-Temperature

Heat-resistant formulations for demanding industrial environments and functional testing under thermal load.



Third-Party Resins

Compatible with photopolymer resins from third-party manufacturers, in addition to the qualified Luxform range, for maximum sourcing flexibility.



Compact Formats

LX-6



PRINTING VOLUME

600 × 600 × 400 mm

Footprint: **118 × 129 × 217 cm**

LX-8



PRINTING VOLUME

800 × 800 × 500 mm

Footprint: **140 × 149 × 243 cm**

LX-10



PRINTING VOLUME

1000 × 1000 × 600 mm

Footprint: **160 × 170 × 243 cm**

The compact Luxform range covers prototyping and small-batch production, from benchtop to mid-size format, with the same laser platform and the same accuracy as the larger models.

Large Format

LX-17



PRINTING VOLUME

1700 × 800 × 650 mm

Footprint: **248 × 169 × 232 cm**

Ideal for: automotive bumpers and components, molds, one-piece display and stage props

LX-27



PRINTING VOLUME

2700 × 900 × 800 mm

Footprint: **351 × 196 × 273 cm**

Among the largest SLA systems available: large molds and large-scale display structures

Model Comparison

Specification	LX-6	LX-8	LX-10	LX-17	LX-27
Print volume	600×600×400 mm	800×800×500 mm	1000×1000×600 mm	1700×800×650 mm	2700×900×800 mm
Machine footprint	118×129×217 cm	140×149×243 cm	160×170×243 cm	248×169×232 cm	351×196×273 cm
Machine weight	990 kg	1370 kg	1630 kg	2780 kg	3750 kg
Installed power	1.5 kVA	1.5 kVA	1.8 kVA	2.2 kVA	3.0 kVA
Laser source	Nd:YVO4 355 nm, variable spot 0.08–0.8 mm	= LX-6	= LX-6	= LX-6	= LX-6
Scanning speed	15 m/s	15 m/s	15 m/s	15 m/s	15 m/s
Layer thickness	0.05–0.2 mm	0.05–0.2 mm	0.05–0.2 mm	0.05–0.2 mm	0.05–0.2 mm
Accuracy	±0.1 mm (L≤100) ±0.1% × L (L>100)	= LX-6	= LX-6	±0.15 mm (L≤100) ±0.15% × L (L>100)	= LX-17

Powder Bed Fusion

Sinterix Series

Powder Bed Fusion (PBF) selectively sinters polymer powder with a laser, layer by layer, to produce strong functional parts and complex geometries with no need for support structures.

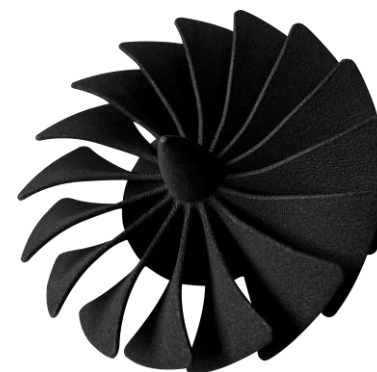
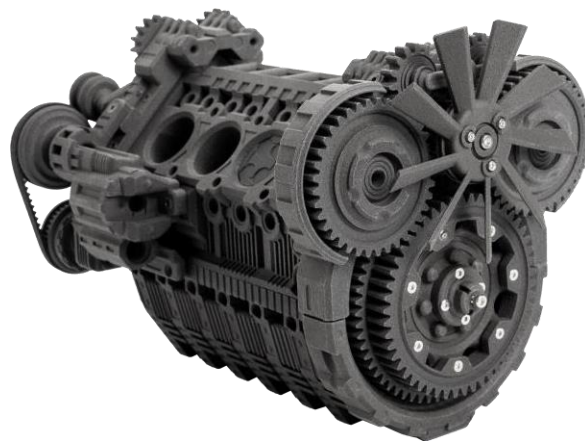


Shared Features Across the Series

- Three-axis dynamic focus for uniform sintering
- Independent 8-zone thermal control
- Compatible with PA12, PA12GB and TPU-23 powders
- Parts ready to use, no print supports required

SINTERIX SERIES · PBF

Print Examples



Compatible Materials

 OPEN MATERIAL SYSTEM

Sinterix systems run on an open powder platform: no proprietary powder locks, full compatibility with qualified third-party PA12 and TPU powders.

PA12 Standard

White and black nylon powder with fine, uniform particle size for general-purpose functional parts.



PA12 High-Performance

Enhanced toughness and impact resistance for demanding automotive, aerospace and electronics parts.



PA12-GB (Glass Bead)

Glass bead-reinforced nylon for exceptional stiffness and high-temperature resistance.



TPU (Flexible)

Thermoplastic polyurethane combining rubber-like elasticity with plastic-like strength.



SX-26

Compact SLS printer for technical prototyping and small batches



Compact structure, small footprint

Integrated powder supply and lifting build platform in a modular, compact design.



Easy to use

Intuitive software; removable and replaceable build cylinder.



Stable performance, high efficiency

Three-axis dynamic focus and independent thermal control for an optimal thermal field.



Adjustable parameters

Open material system for research and development; all parameters independently adjustable.



High powder reuse rate

Smart feeding with no overfeed: minimal spent powder generated.



TECHNICAL SPECIFICATIONS



Cylinder volume

260 × 260 × 400
mm



Machine footprint

1260 × 1060 ×
2130 mm



Power supply

380 V, three-phase



Max. temperature

280 °C max



Materials

PA12 · PA12GB ·
TPU-23

SINTERIX SERIES · PBF

SX-44

High-throughput SLS printer for functional parts in series production



High-speed laser sintering

Optimized scanning and heating: parts of about 5 kg printed within 24 hours.



High nylon powder reuse rate

PA powder regeneration technology, with utilization close to 100%.



High machine utilization

External powder tank for continuous feeding and fast reloading.



Intelligent dual-blade recoater

Better surface finish, less powder waste, more efficiency.



TECHNICAL SPECIFICATIONS



Cylinder volume

440 × 440 × 450
mm



Machine footprint

1775 × 1315 ×
2095 mm



Power supply

380 V, three-phase



Max. temperature

220 °C max



Materials

PA12 · PA12GB ·
TPU-23

Model Comparison

Specification	SX-26	SX-44
Build cylinder volume	260×260×400 mm	440×440×450 mm
Machine footprint	1260×1060×2130 mm	1775×1315×2095 mm
Net weight	800 kg	1980 kg
Recommended layer thickness	0.06–0.3 mm	0.06–0.3 mm
Laser system	CO2 60 W or fiber 300 W	CO2 60 W
Maximum build temperature	280 °C	220 °C
Temperature control	8 independent zones	8 independent zones
Compatible materials	PA12, PA12GB, TPU-23	PA12, PA12GB, TPU-23
Power supply	380 V, three-phase	380 V, three-phase

Pellet Additive Manufacturing

Granuflow Series

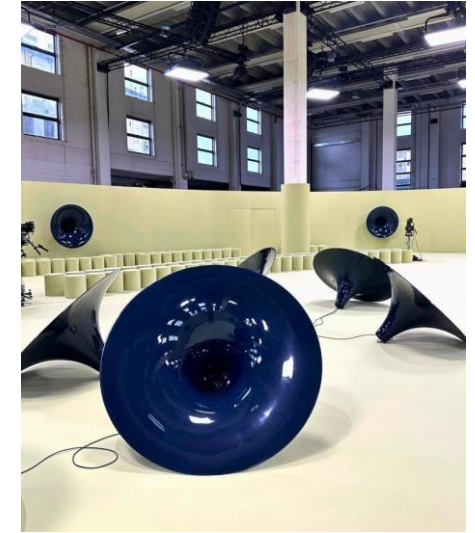
PAM technology (also known as FGF, Fused Granulate Fabrication) prints directly from polymer pellets instead of filament, cutting material costs significantly and enabling additive manufacturing at very large scale.



Shared Features Across the Series

- Automatic pellet feeding with dedicated CNC control
- Broad material compatibility: ABS, PETG, PC, PA, PP and fiber-reinforced grades
- Print resume after a power interruption
- Significantly lower material cost than traditional filament

Print Examples



Compatible Materials

 OPEN MATERIAL SYSTEM

Granuflow systems run on an open pellet platform: no proprietary pellet locks, full compatibility with qualified third-party engineering pellets.

ABS

High-gloss, high-rigidity engineering pellets in multiple grades, easy to process and mold.



PETG + Glass Fiber

Glass fiber-reinforced PETG (20–30% GF) with excellent printability, warpage resistance and weatherability.



PLA & Wood-Based

Bio-based, biodegradable pellets derived from renewable resources for eco-conscious applications.



High-Performance Composites

Carbon fiber-reinforced pellets (e.g. PESU+CF) for high-temperature molding up to 200 °C.



GF-8

Compact pellet extruder for models, sculptures and small batches



Automatic, continuous feeding

Pneumatic system with alarm when material runs out.



Emergency stop

Dedicated safety mode for the operator.



Precision hybrid structure

Belt-driven Z-axis and precision X/Y modules for stable printing.



Nozzle up to 350 °C

450 °C optional; fully enclosed sheet-metal cover for thermal insulation.



Ready to use

Fully integrated hoisting: plug in and start printing right away.



TECHNICAL SPECIFICATIONS



Print volume

800 × 600 × 800 mm



Machine footprint

1500 × 1120 × 1740 mm



Power supply

220V · 1-phase



Nozzle

0.4–2 mm · 350 °C
(450 °C optional)



Materials

ABS · PETG · PLA
· ASA · TPU · PC ·
PA · PP (+GF/CF)

GF-18

High-throughput pellet extruder for large-format production



Throughput up to 15 kg/h

Among the highest in the pellet-extrusion category.



Proprietary CNC control

Smooth, precise and stable printing at large scale.



Sealed linear modules

Belt-free, dust-proof design for longer component life.



Resumes after a blackout

Printing automatically resumes after a power interruption.



Broad material compatibility

Includes ABS and PETG+GF printing without a heated bed.



TECHNICAL SPECIFICATIONS



Print volume

1800 × 1200 ×
1300 mm



Machine footprint

2650 × 2000 ×
2300 mm



Power supply

220V · 1-phase



Nozzle

1–8 mm · 350 °C
(450 °C optional)



Materials

ABS · PETG · PLA
· ASA · TPU · PC ·
PA · PP (+GF/CF)

GF-30

Large-format pellet extruder for molds and tooling



Large format for molds

Large work volume for producing molds in a single piece.



Fiber-reinforced materials

PETG+GF, PP+GF, PC+GF, PPS+CF for high-performance applications.



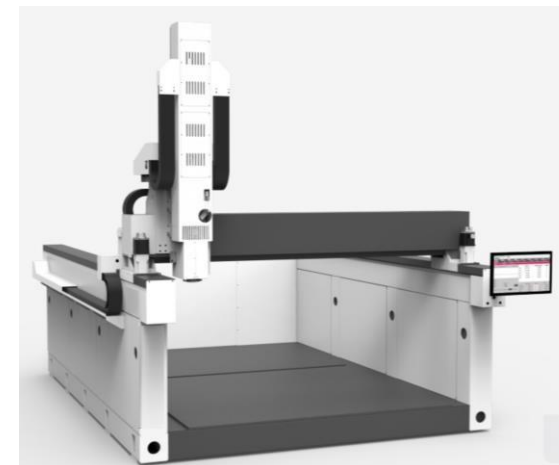
Heat resistance up to 130 °C

With PP+30%GF; PETG+30%GF withstands up to 90 °C.



New-generation CNC system

Automatic feeding and multi-zone thermal control, 24/7.



TECHNICAL SPECIFICATIONS



Print volume

**3000 × 2000 ×
1000 mm**



Machine footprint

**4104 × 3067 ×
3100 mm**



Power supply

380V · 3-phase



Nozzle

**2–6 mm · 350 °C
(450 °C optional)**



Materials

**PETG+GF ·
PP+GF · PC+GF ·
PPS+CF ·
PC+ABS**

Model Comparison

Specification	GF-8	GF-18	GF-30
Print volume	800×600×800 mm	1800×1200×1300 mm	3000×2000×1000 mm
Machine footprint	1500×1120×1740 mm	2650×2000×2300 mm	4104×3067×3100 mm
Nozzle diameter	0.4–2 mm	1–8 mm	2–6 mm
Machine weight	~200 kg	1300 kg	6000 kg
Max. nozzle temperature	350 °C (450 °C opt.)	350 °C (450 °C opt.)	350 °C (450 °C opt.)
Power supply	Single-phase 220 V	Single-phase 220 V	Three-phase 380 V
Main materials	ABS, PETG, PLA, ASA, TPU, PC, PA, PP (+GF/CF)	Same as GF-8 + advanced composites	PETG+GF, PP+GF, PC+GF, PPS+CF



Let's talk about your next additive manufacturing project

[Request Information](#)



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