3D SYSTEMS
Additive Manufacturing Solutions

EXT 800 Titan™ Pellet 3D Printer

High-speed industrial additive manufacturing solution with innovative pellet-extrusion technology

Transforming industrial production additive manufacturing with up to 10X faster print speed and 10X savings on materials

The EXT 800 Titan Pellet 3D printer makes our proven pellet extrusion technology accessible to organizations without the need or budget for one of our larger systems.

Our pellet-extrusion additive manufacturing (AM) technology reduces per part costs and delivers higher part performance with lights-out reliability. EXT Titan Pellet systems are relied on by diverse companies across industries including aerospace, automotive, foundry, government/defense, healthcare, furniture and consumer products with applications from tooling to end-use part production.

REDUCED PART COST

Up to 10X faster print speeds and 10X reduction in raw material costs compared to filament 3D printing, drastically lowering per part cost vs. FDM/FFF printers.

LIGHTS-OUT RELIABILITY

EXT Titan Pellet systems are built for lights-out manufacturing on the production floor with industrial CNC motion control systems, servos on all axes and ultra-reliable extruders.

HIGHER PART PERFORMANCE

With a wide range of pellet feedstocks available, including high-temperature and fiber-reinforced materials, EXT Titan Pellet systems enable customers to use the right material for their industrial production applications.

MORE THAN JUST MACHINES

Our experts can help you with material validation, process refinement, toolpath development, post-processing, and more. Our global service team has you covered to maximize machine uptime when it's time for maintenance.

Application Examples

- Sandcasting Tools & Patterns
- Thermoforming Molds
- Refractory Molds
- Composite Layup Tooling
- Manufacturing Jigs and Fixtures
- Automotive and Marine Components
- HVAC Components
- Furniture, Lighting, Decor
- End-Use Parts
- Full-Scale Prototypes
- and more

EXT 800 Titan Pellet: Engineered to meet the demands of industrial AM applications, and your budget.

The speed and reliability you've come to expect from EXT Titan Pellet systems in a compact frame designed to fit through standard double doors.

Standard features include welded and precision-machined steel frame, front-mounted touch-screen HMI, active bed and chamber heating, industrial CNC motion controller, and servo motors on all axes. EXT 800 system comes standard with a single high-throughput, precision pellet extruder. The EXT 800 is designed to fit through standard double doors and features pallet-jack compatible fork points for easy maneuverability.

EXT 800 Titan Pellet Specifications

Build Volume (XYZ)	800mm x 600mm x 800mm (31.5" x 23.6" x 31.5")
Maximum Temperatures	Pellet Extruder: 400°C Print Bed: 140°C Build Chamber: 80°C
Print Speeds	Up to .5m/sec
Rapid Travel Speeds	Up to 1m/sec

Toolhead	Single High-Throughput Pellet Extruder
Available Nozzle Diameters	0.6–9.0mm, 2mm standard
Pellet Extruder Throughput	1–30* lbs. per hour

*max flow rate with 9 mm nozzle

Recommended Slicing Software	Simplify 3D
Standard Certifications	CE, KC, NFPA-79 Compliant
Standard Safety Equipment	Door Interlocks, Material Run-out Detection, Locking Access Panels, Stack Light
Optional Ancillary Equipment	Pellet Dryer

Power Input	208V 3 Phase, 60 amp
Machine Weight (uncrated)	1,950 kg (4,300 lb)
Dimensions	2.13m x 1.4m x 1.92m (7.0' x 4.6' x 6.3')

Why print with pellets?
Speed, low cost, and a huge selection of industrial materials.

As the raw form of most thermoplastics, pellets are the lowest cost feedstock available for additive manufacturing, and they're available in hundreds of formulations.

From high-strength fiber-reinforced industrial plastics to highly flexible elastomers, pellet extrusion offers a broad range of material choices. Our open materials architecture enables customers to choose between buying materials on the open market or buying certified, production-ready pellets direct from 3D Systems. Either way, our application engineers can help you select the right material and the best print parameters for your specific application to ensure your manufacturing success.

The following production-proven pellet materials are available directly from 3D systems:

High Performance/Filled Materials
- ABS CF10
- ABS CF20
- PP CF15
- PP GF30
- PC CF20
- Nylon CF5
- Nylon CF10
- Nylon CF35
- PEI CF20
- PEI GF20
- PEKK GF30

Standard Materials
- ABS
- ASA
- PETG
- PLA
- PP

Flexible Materials
- TPE 25 Shore A
- TPU 40 Shore A
- TPU 85 Shore A

Ready to learn more?
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