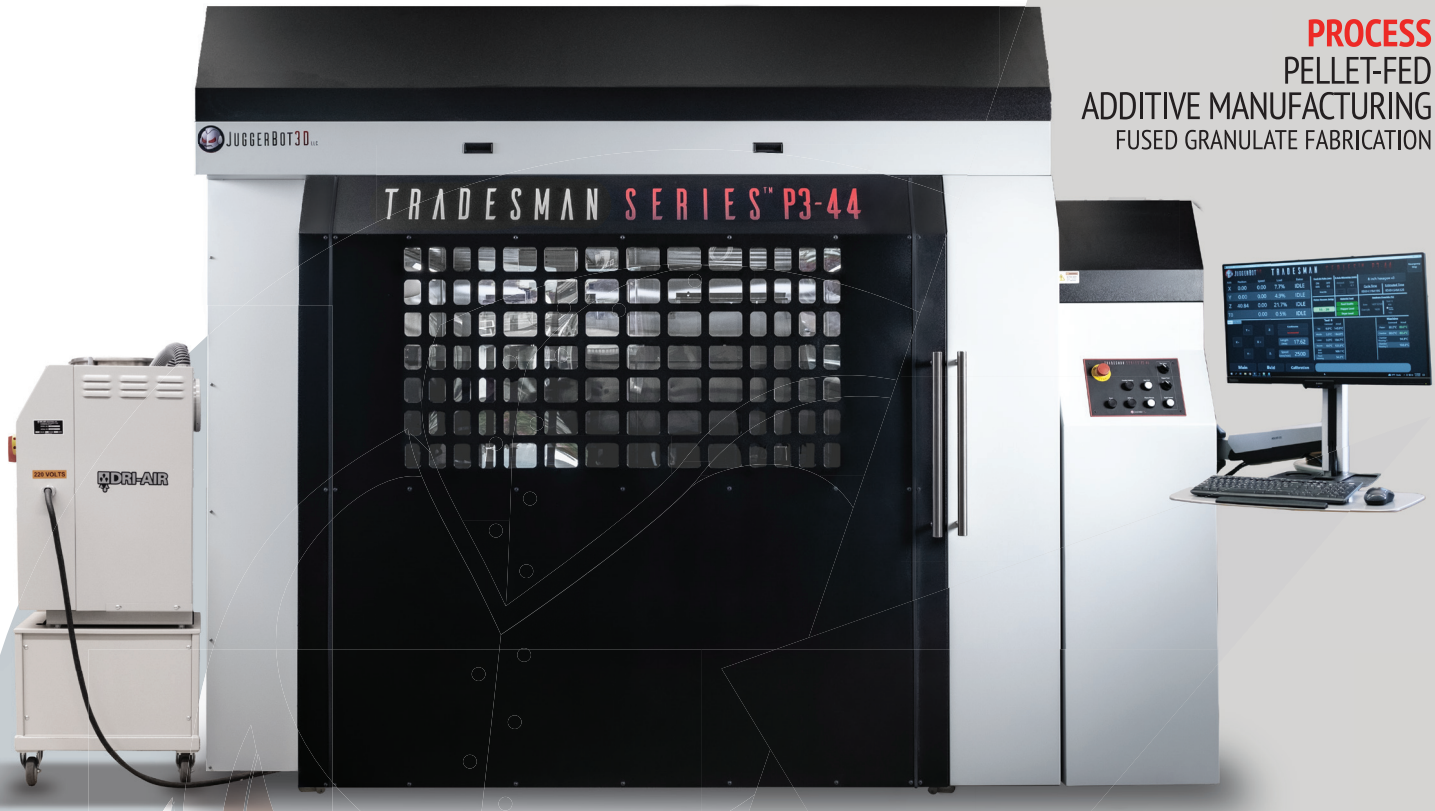
TRADESMAN SERIES™ P3-44

ADDITIVE SYSTEM

beyondbynd
www.beyondbynd.com

PROCESS
PELLET-FED
ADDITIVE MANUFACTURING
FUSED GRANULATE FABRICATION



►Top-notch Pellet Extruders
Reach extrusion rates up to 15 Pounds per hour across 3 interchangeable nozzles while processing a wide array of performance thermoplastics.

►Streamlined Production
All P3-44s are built with an integrated workstation that includes the complete suite of software tools necessary for operation.

► Process Control
Eliminate unwanted moisture from pellets before entering the extruder with mobile drying units. Prevent irregularity with a controlled build chamber.

► Easy Calibration
JuggerBot 3D's calibration software uses touch probe sensing technology to simplify the bed-leveling process and eliminate human error.

►Industrial Motion & Control
Robust integrated motion controllers are coupled with closed-loop servo motors and absolute encoders to ensure repeatable and reliable movement.

► Build Big Parts, Fast
The P3-44 is equipped with pellet-fed extrusion technology capable of increasing throughput by more than 30X that of traditional 3D printers.

► Use Production Materials
Choose from a selection of market-ready options, or work with JuggerBot 3D to harness one of your own. Ask about our Material Testing & Assessments!

► Professional Support & Service
JuggerBot 3D offers service and support programs to make sure your team gets the most of their Tradesman Series™.

PERFORMANCE. RELIABILITY. VALUE.

The Tradesman Series™ P3-44 unlocks industrial 3D printing by enhancing printing speeds and material possibilities for manufacturers moving additive to the shop floor.

241 W Federal St, Youngstown, OH 44503
Phone: (330)331-2190 Email: sales@juggerbot3d.com

JUGGERBOT3D LLC

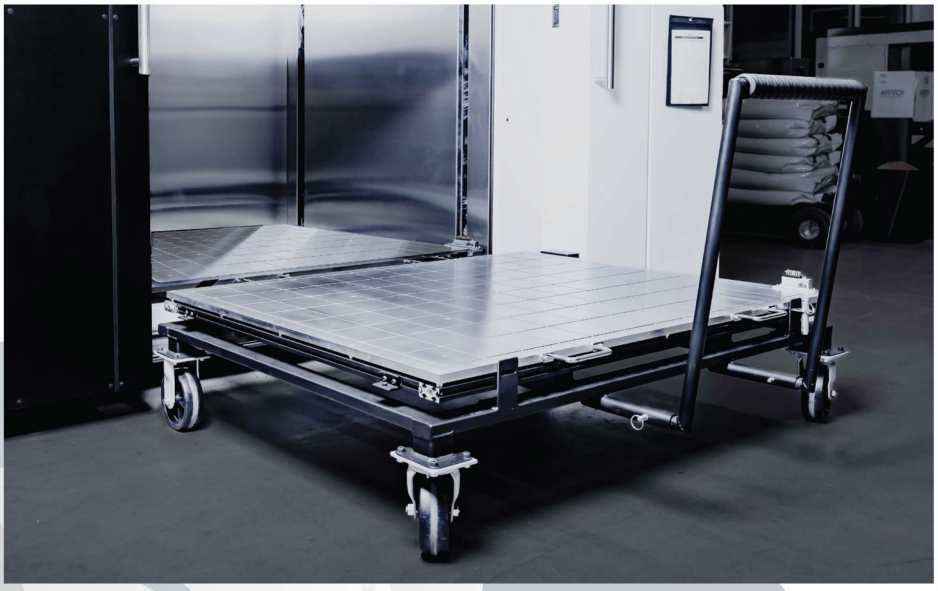
Ancillary Equipment

▸ Platen Removal Cart

A faster, cleaner way to perform part removals and optimize uptime. Designed specifically for the Tradesman Series™ P3-44, retreive heavier or larger parts with ease.

▸ Fume Extraction System

Ensure a clean and safe working environment. Compact and easy to integrate, this system is essential for maintaining air quality in production.



(JuggerBot 3D Platen Removal Cart)

Materials

Compatible with most third-party thermoplastic pellets.

- **Commodity Materials** (ABS, ASA)
- **Flexible Materials** (TPE, TPU)
- **Engineering-Grade Materials** (Nylon, PC)
- **Composite Materials** (Glass-Fiber, Carbon Fiber, Natural Fiber)
- **High-Temperature Materials** (PEEK, PEI/ULTEM)

Material Testing & Assessment

Bead Characterization System

Bead Area Mode

Material Database

▸ JuggerBot 3D Material Card

Enabling Production Workflows

Our Material Card is a digital suite that leverages findings from material testing capabilities to fuel smart printing process controls, while listing critical safety and performance-related properties for materials to establish reliable printing in pellet-fed additive manufacturing.

SYSTEM SPECIFICATIONS		OTHER SPECIFICATIONS	
Build Volume (YXZ):	36 x 48 x 48 in (914 x 1219 x 1219 mm)	**Positional Accuracy:**	+/- 0.0010 in (0.025 mm). Part accuracy is dependent on geometry, material and material configuration
Machine Footprint:	73 x 125 x 101 in (1854 x 3175 x 2565 mm)		
Machine Weight:	4,400 lbs (1996 kg)	**Safety:**	Machine Access Sensors, Lockout, Tagout on Power
Max Extruder Temperature:	752˚F (400˚C)	**System Power:**	208V / 100A / 60Hz / 3Ph with Neural and Ground
Max Platen Temperature:	248˚F (120˚C)	**Dryer Power:**	208V / 30A / 60Hz / 3Ph with Neutral and Ground
Max Chamber Temperature	203˚F (95˚C)	**Air Requirements:**	Min 95psi, 4CFM
Dryer Capacity:	100 - 150 lbs (45 - 68 kg)	**Operation Control:**	27 Inch Monitor
Max Traverse Speed:	Up to 19.7 in/sec (500 mm/s)	**Operating System:**	Microsoft Windows 10 Pro
Suggested Layer Height:	0.030 - 0.089 in (0.75 - 2.25 mm)	**Connectivity:**	USB, Wi-Fi, Ethernet
Average Throughput:	Up to 15 lbs/hr (6.80 kg/hr)	**Software:**	Machine Control, Calibration Programs, Slicing Software, Remote Login Control.

Request a Quote

*Specifications above are subject to change.

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