VX ENCLOSED COMPACT HIGH-PERFORMANCE 3D PRINTER

450°C Capability. AI Monitoring. Industrial Materials in a Compact Form.

JAEGERTECH
additive manufacturing

WHY THE VX?

The VX brings industrial-grade material capability into a compact, accessible package. Its 450°C hot end, built around a twin-gear direct drive, titanium heat shield, and hardened steel nozzles, handles the full spectrum of engineering filaments: nylon, carbon fiber blends, polycarbonate, PEEK, and more. A 160°C heated bed with laser-radar auto-leveling means the first layer is never a gamble.

The actively heated build chamber reaches 80°C, the highest in the Jaegertech lineup, while the onboard filament drying cabinet holds hygroscopic materials at temperatures up to 70°C until the moment they feed. Water cooling keeps the hotend thermally stable through long high-temperature runs. The result is a system that doesn't compromise on material performance just because the footprint is smaller.

An AI camera monitors for failures and debris in real time, with time-lapse support and full network connectivity via Wi-Fi, LAN, USB-C, and Ethernet. Active vibration compensation and pressure advance via Klipper keep quality consistent at speed. The VX is the right tool for shops that need real capability without a large-format footprint.

450°C Hot End
Twin-gear direct drive with titanium heat shield and hardened steel nozzles

160°C Heated Bed
High-temperature bed for industrial materials with laser-radar auto-leveling

80°C Heated Chamber
Actively managed build chamber for warp-sensitive engineering polymers

Built-in Filament Dryer
Onboard drying cabinet up to 70°C — keeps hygroscopic materials print-ready

AI Camera Monitoring
Detects print failures and debris in real time; supports time-lapse recording

HEPA Filtration
Filters ultrafine particles; integrated air manager maintains chamber temps

240 × 210 × 200 mm	500 mm/s	450°C
BUILD VOLUME	MAX PRINT SPEED	MAX NOZZLE TEMP

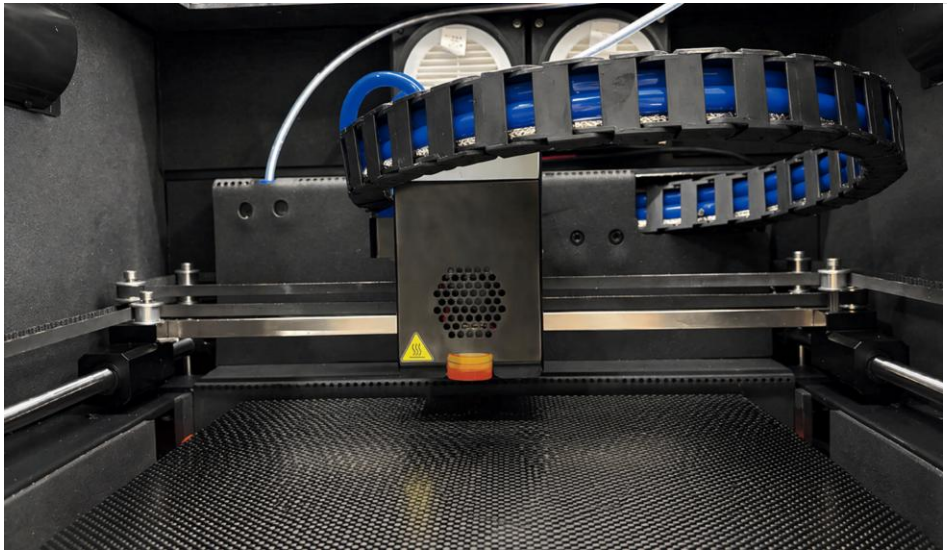
FULL TECHNICAL SPECIFICATIONS

CORE SYSTEM

Build Volume	240 × 210 × 200 mm
Print Technology	FDM (FFF)
Extrusion System	Twin-Gear Direct Drive
Layer Thickness	0.05–0.3 mm
Position Accuracy	X/Y: 10 µm | Z: 5 µm
Print Speed	Up to 500 mm/s
Power Supply	100–240V, 50–60Hz, 600W
Machine Weight	~35 kg (approx.)

MOTION & CONTROL

Firmware	Klipper (open-source, real-time)
Vibration Comp.	Active input shaping (X/Y axes)
Extrusion Control	Pressure Advance (E-axis)
Leveling System	Automatic — laser-radar sensor
Display	5" TFT Touchscreen (foldable, HD)
Monitoring	AI camera — failure detection & time-lapse
Connectivity	Wi-Fi / LAN / USB-C / Ethernet (RJ45)



THERMAL & MATERIALS

Max Nozzle Temp	Up to 450°C
Heated Bed Temp	Up to 160°C
Chamber Temp	Up to 80°C
Filament Drying	Onboard dryer up to 70°C
Cooling System	Water-cooled hotend
Filament Diameter	1.75 mm
Nozzle	Hardened steel; titanium heat shield
Supported Materials	PLA, ABS, ASA, PETG, TPU, TPE, HIPS, PVA, PA, PA-CF, PA-GF, PC, PP, PEEK, etc.
File Formats	.3MF / .STL / .STP / .STEP / .SVG / .AMF / .OBJ

**PEEK and other ultra-high-temperature materials are configuration- and process-dependent.*

ENVIRONMENT & USABILITY

Enclosure	Fully enclosed, heated build chamber
Air Filtration	HEPA filter system (≥95% UFP removal)
Humidity Monitoring	Temperature & humidity sensor in filament chamber
Build Surface	High-temp compatible print bed
Auto Leveling	Laser-radar, first-layer adhesion optimized
Slicer Compatibility	Cura, OrcaSlicer, Simplify3D, PrusaSlicer, Slic3r
OS Compatibility	Windows / macOS / Linux

Jaeger Technology Group LLC
1629 4th Ave SE, Suite 115
Decatur, AL 35601
jaegertechgroup.com

Walter Jaeger
256-957-1797
wjaeger@jaegertechgroup.com

Call or email us today to learn more about the VX+, other machines, and our services!