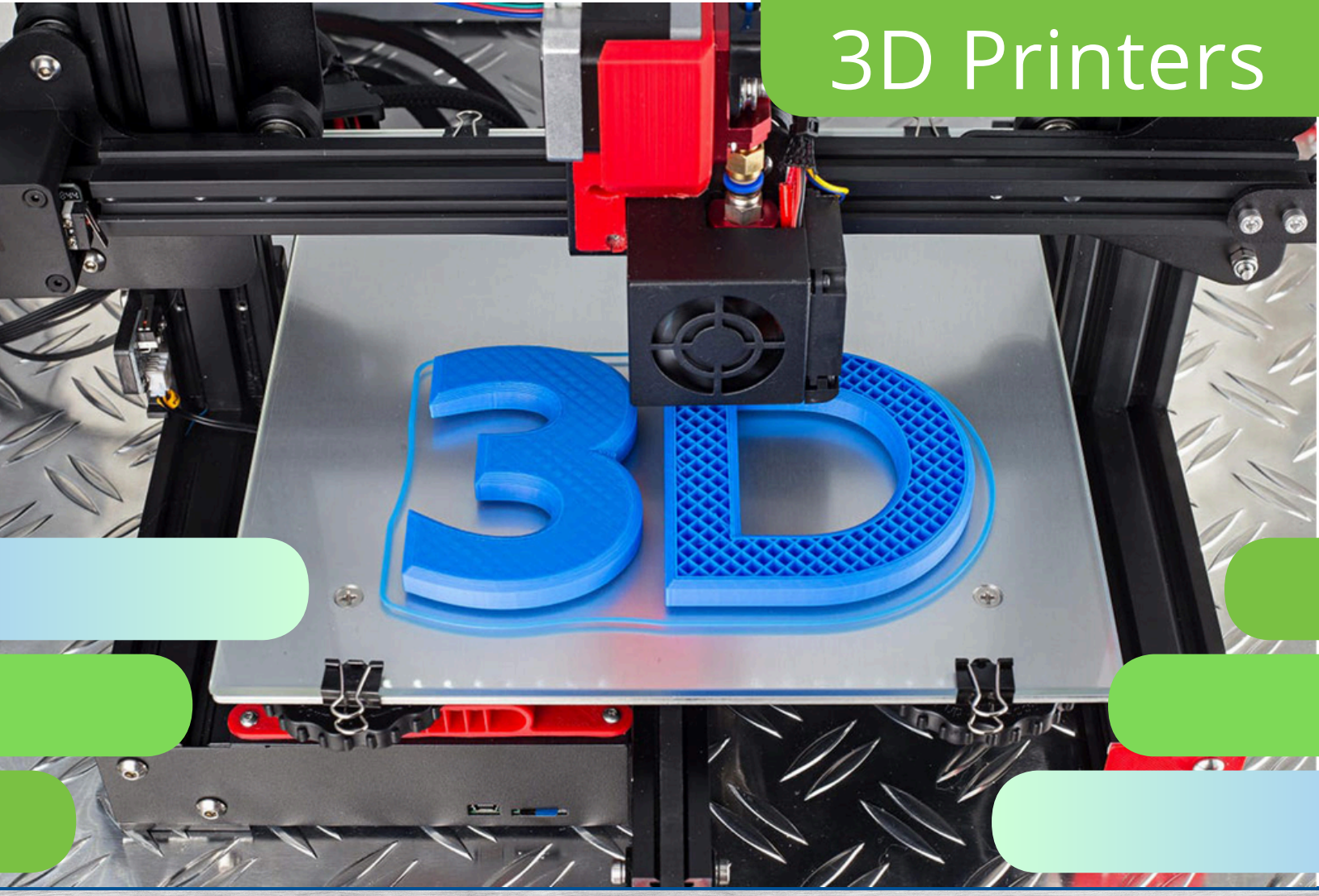
3D Printers



CATT

Career and Technical Training, LLC

Experience the Power of 3D Printing.

Table of Contents:

03 3D Printers

14 Metal 3D Printers

24 Furnaces

How to Contact Us:

Call Us:

(970) 686-0379

Customer Service is available Monday through Friday from 8:00 AM to 5:00 PM MT. Our office is available to you from the initial planning stage through support, upgrading, and anything in between.

Send Your Request:

jslupe@catt-llc.com

This email address can be used to contact our sales team to request quotes, shipping, order processing instructions, and purchase order information.

Visit Our Website:

www.catt-llc.com

Our website is continually updated to serve your needs better and make product information easier to find. You'll find product specifications, images, and much more.

Call Us Direct
We Will Help You
Locate Your Local Dealer

CATT

About Us...

- We market to a diverse customer base, offering storage and workplace solutions for industry, education, government, and healthcare. With over 5,000 furniture and training equipment-related products, we provide solutions that other companies cannot. From welding and cosmetology labs to modular storage cabinets and automotive workstations, we have the products to meet your requirements.

- Our company has been family-owned and operated for over 20 years, and we have a dedicated team of industry professionals. Our commitment to our customers through service and product quality symbolizes pride throughout our organization.

- Military training facilities, public educational schools, technical/vocational training centers, and leading auto engine manufacturing plants are all examples of where CATT products are relied upon nationwide.

In the rapidly evolving business world, you need a 3D printer that puts you ahead of the competition.

3D Systems printers empower innovation throughout the product lifecycle, from conceptualization to final manufacturing. Selecting the optimal 3D printing technology for your needs is paramount to achieving transformative results.

Which 3D Printer is Best for You?

Identifying your unique requirements within the entire design-to-manufacture process will help you select the best 3D printing technology and optimize its benefits.

3D Printing Performance Criteria You Need to Review

File-to-Finished Part Speed

Every 3D printer has a different file-to-finished part speed, considering build preparation, print speed, required post-processing, and optional finishing time.

Part Strength

Do you know if the parts you print will do what you need them to? This guide will help you review 3D printers that create parts with the specific mechanical properties your application requires.

Accuracy

Accuracy, precision, and repeatability depend on various factors, including part size, material, geometry, post-processing, print orientation, and more. The Buyer's Guide helps you define your application accuracy requirements so 3D Systems' experts can help you choose the right 3D printer at the right price.

Material Properties

Understanding the intended applications and the needed material characteristics is important in selecting the best 3D printer. Each technology has strengths and weaknesses that need to be factored in.

Part Aesthetics

Some applications require printed parts that are visually appealing, full color, or have specific look and feel requirements. Other applications are purely functional, and part appearance doesn't matter as long as the parts perform as expected. Use the guide to help determine what is most important to you and review which 3D printers are the best for your requirements.

Print Capacity

The required print capacity for production is determined by various criteria, including the printer's ability to produce the breadth of the parts needed to create.

Initial investment and total cost of operation

The Buyer's Guide will also help you prioritize what's more important to you right now: a low cost of entry so that you can learn how 3D printing will benefit your business, or, if you already know how additive manufacturing can be leveraged for your business, a higher initial investment that will result in a lower total cost of operation.

3D Printers

3D printing has revolutionized manufacturing by enabling rapid prototyping, accelerating product development cycles through quick iterations and testing. Its capacity for customization and mass personalization benefits industries like healthcare and fashion, while reducing costs and material waste compared to traditional methods. The technology's design freedom allows for complex geometries previously unattainable, opening new avenues for innovation. Furthermore, 3D printing facilitates on-demand, decentralized manufacturing, minimizing inventory needs. With applications spanning aerospace, automotive, healthcare, and consumer goods, 3D printing is transforming industries. As the technology continues to evolve, its potential to reshape manufacturing, supply chains, and even fields like medicine and construction remains immense, making it a crucial driver of the digital manufacturing revolution.

www.catt-llc.com 970-686-0379 jslupe@catt-llc.com

- **HyperSpeed**
- **Easy**
- **Quiet**

shown with optional accessories

AFINIA QD330 HIGH-SPEED

Introducing the Afinia QD330, a cutting-edge 3D printer designed to redefine your 3D printing experience. If you're in search of a 3D printer that delivers unmatched speed and precision, your search ends here. The QD330 is well-suited for beginners, individual users, families, and educational institutions.

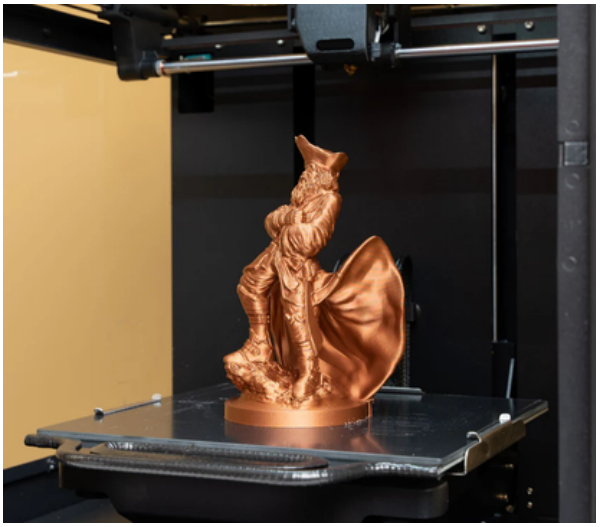
Build Volume (W × D × H)
8.6" × 8.6" × 8.6"

KEY FEATURES:

- **Fully Enclosed**
- **Full-auto one-click leveling**
- **3-second quick swap nozzle**
- **Dual air filtration system:** HEPA Filter
- **Lightning-Fast Printing:** With a blazing maximum printing speed of 23.62" per second
- **Whisper-Quiet Operation:** Operating at a mere 50dB
- **Pro-Quality Results:** thanks to its dual-channel cooling, robust Core XY all-metal frame, and vibration-cancelling technology.
- **Material Versatility:** Print with a wide range of filaments, including PLA, ABS, PETG, PLA-CF, PETG-CF, and more

Contact us for
More
Information!

3D Printers



shown with optional accessories

AFINIA H440

The Afinia H440 3D printer is perfectly built, with ease of use, safety, and reliability combined in its elegant design that will fit on any desktop. The printer produces dimensionally accurate plastic parts for education, design, or engineering applications.

Build Volume (W × D × H)
7.9 × 7.9 × 7.9 inch

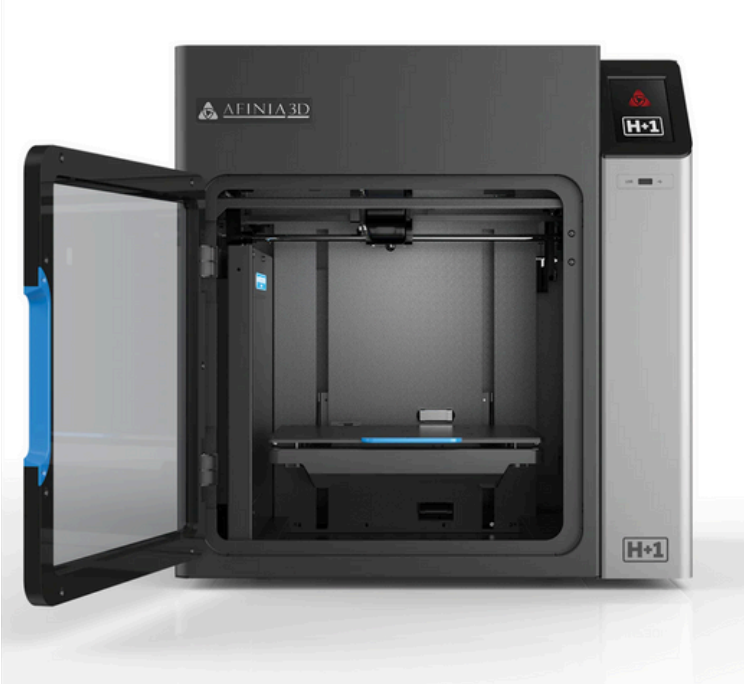
KEY FEATURES:

- **Fully Enclosed**
- **Full-auto leveling**
- **Power loss print recovery filament run-out detection**
- **Air filtration system:** HEPA & activated Carbon Filter
- **Connectivity & Control:** Wi-Fi & USB connectivity, touchscreen interface, mobile app support, print queue with admin control.
- **Performance & Reliability:** Custom temperature settings, power failure protection, filament run-out detection.
- **Usability:** Intuitive touchscreen, easy filament replacement, supports a wide range of materials.

This version provides more detail while maintaining a concise and reader-friendly format.

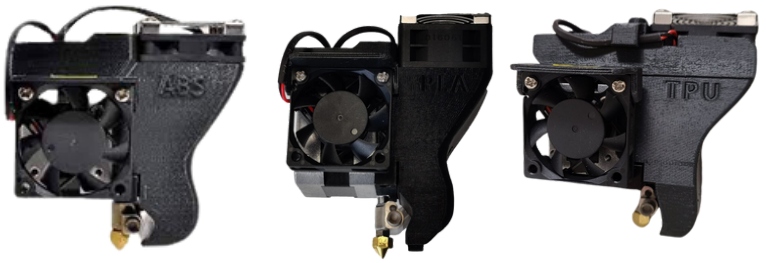
Contact us for
More
Information!

3D Printers



Three Material-Specic Print Heads Tailored for Better Material Compaility

ABS, PLA, and TPU



shown with optional accessories

AFINIA H+1

The Afinia H+1 3D printer combines a large build volume with consistency of performance. Material-specific printheads are included, ensuring optimal print quality and compatibility across a wide range of filament types.

KEY FEATURES:

- **Interchangeable Nozzles**
- **Fully enclosed, heated platform & chamber**
- **Full-auto leveling & height detection**
- **Power loss print recovery filament run-out detection**
- **Air filtration system:** HEPA & activated Carbon Filter
- **Material-specific printhead system for optimal quality and compatibility**
- **2-sided interchangeable build plates**
- **Power loss print recovery filament run-out detection**
- **Customizable temperature controls & filament profiles**
- **Print queue for auto job management**
- **Smart support material technology**
- **Multiple connectivity options (WiFi, USB, LAN, & USB Flash Drive)**

Build Volume (W × D × H)

10" × 8"× 8.8"

Contact us for
More
Information!

3D Printers

shown with optional accessories

Raise3D Pro2 Plus

Raise3D's award-winning Pro2 Series is recognized as a benchmark and gold standard for professional 3D printing applications and 24/ 7 reliability. Raise3D's Pro2 Series includes the Pro2 and the Pro2 Plus, dual extruder 3D printers with high resolution, for manufacturing and rapid-prototyping projects of varying sizes.

Build Volume (W × D × H)

Single Extrusion Print: 12" × 12" × 23.8"

Dual Extrusion Print: 11" × 12" × 23.8"

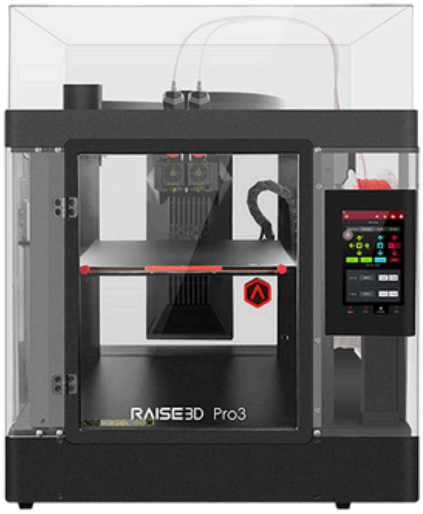
KEY FEATURES:

- **Hyperspeed**
- **Fully Enclosed**
- **Metal build plate for even heat distribution**
- **Power loss print recovery filament run-out detection**
- **Air filtration system:** HEPA Filter
- **Diverse Filament Compatibility (Up to 300°C)**
- **32-bit Motion Control Board**
- **Wireless Compatibility**
- **Full metal frame for smooth movement and precise positioning**
- **Material Versatility:** Print with a wide range of Filament, including PLA/ ABS/ ASA/ PETG/ PC/ PETG ESD/ TPU 95A/ PVA+
- **Electronic Driven, Dual Extrusion with Retracting Hot Ends; 4× Increased torque performance**

What are the dual extruders for?

Dual extruders enable the 3D printer to produce objects with multiple filaments, such as a water-soluble 3D printing material, and multiple colors.

Contact us for
More
Information!



shown with optional accessories

shown with optional accessories

Raise3D Pro3

Raise3D Pro3 Plus

Forged from the Pro2 Series, Raise3D's newly launched Pro3 Series professional dual extruder 3D printers meet the needs of both production and multi-sized rapid prototyping, with high precision and round-the-clock stable operation. The Pro3 Series comprises the Pro3 and the Pro3 Plus, fulfilling large-scale production requirements and multi-sized rapid prototyping. A high-quality printer design that includes enhanced features and an intelligent assistant system known as EVE makes the Pro3 Series dual extruder 3D printers an excellent option for professional 3D printing.

Build Volume (W × D × H)
Single Extruder Print: 11.8" × 11.8" × 11.8"
Dual Extruder Print: 10" × 11.8" × 11.8"

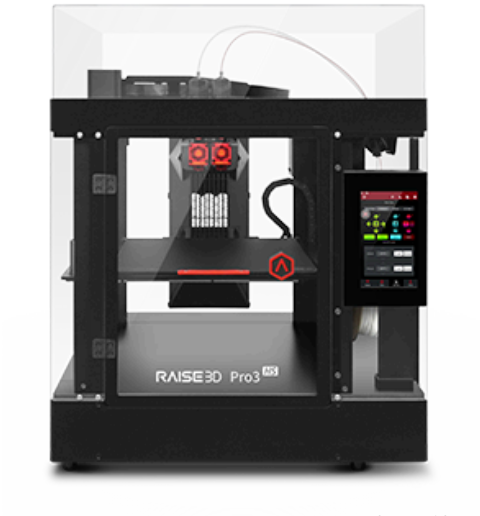
Build Volume (W × D × H)
Single Extruder Print: 11.8" × 11.8" × 23.8"
Dual Extruder Print: 10" × 11.8" × 23.8"

Key Features

- **Fully Enclosed**
- **Full-auto leveling**
- **Live Monitoring**
- **Air filtration system:** HEPA Filter
- **Compatible with Hyperspeed upgrade kit (Hyper FFF® technology)**
- **Power loss print recovery filament run-out detection**
- **Lightweight Cable with Digital Temperature Measurement**
- **Flexible build plate:** allows for the effortless removal of 3D printed parts.
- **Z-axis rod:** stiffness increased by 75% to deliver a more stable performance.

Contact us for
More
Information!

3D Printers



shown with optional accessories

Raise3D Pro3 HS

shown with optional accessories

Raise3D Pro3 Plus HS

The Raise3D Pro3 HS Series is a powerful professional-grade 3D printer that builds upon the Pro3 Series with integrated Hyper FFF® technology. It features leading speeds for printing composite materials with high efficiency and reliability. The upgraded motion control system with a closed-loop stepper motor further improves the precision and accuracy of high-speed printing, making it ideal for printing demanding industrial applications with minimal manual intervention.

Build Volume (W × D × H)
Single Extruder Print: 11.8" × 11.8" × 11.8"
Dual Extruder Print: 10" × 11.8" × 11.8"

Build Volume (W × D × H)
Single Extruder Print: 11.8" × 11.8" × 23.8"
Dual Extruder Print: 10" × 11.8" × 23.8"

Key Features

- **Fully Enclosed**
- **Hyperspeed:** integrated Hyper FFF® technology
- **New RFID Sensor**
- **New Printing Build Plate**
- **Air filtration system:** HEPA Filter
- **Strengthened All-Metal Hot Ends and Nozzles**
- **Automatic Filament Unloading**
- **Hyper Core and Industrial High-Performance Materials Available For Printing**
- **Automatic Filament Switching:** External 2.5kg Storage Boxes (sold separately)
- **Air Flow Manager+Auto Bed Leveling+Automatic Pausing with Door/Lid Sensors**

Contact us for More Information!

shown with optional accessories

Raise3D E2

The E2 is a desktop 3D printer with independent dual extruders (also known as IDEX). IDEX gives the E2 the ability to perform more advanced functions, such as Mirror Mode and Duplication Mode, making this printer ideal for professional 3D printing. This IDEX 3D printer features Easy Swap Print Heads for added convenience when performing maintenance or routine printing tasks. This desktop 3D printer can print with various filaments, and its unique extruder gear design enables it to use flexible 3D printing materials, such as TPU, more reliably and with better results.

Build Volume (W × D × H)

Single Extruder Print: 13" × 9.4" × 9.4"

Dual Extruder Print: 11.6" × 9.4" × 9.4"

Key Features

- **Fully Enclosed**
- **Hyperspeed**
- **IDEX (Independent Dual Extruders)**
- **Mirror Mode / Duplication Mode**
- **Auto Bed Leveling**
- **Air filtration system:** HEPA Filter
- **Industry First Video-Assisted Offset Calibration System**
- **Power Saving Button**
- **Flexible Build Plate**
- **Variety of Material Compatibility:** Filaments up to 300°C

Contact us for
More
Information!

3D Printers

shown with optional accessories

Raise3D E2CF

The E2CF is an IDEX 3D printer. IDEX stands for independent dual extruders, meaning the extruders can operate independently of one another along the same axis during printing to perform more advanced functions.
With IDEX, one extruder can remain motionless and off to the sid. In contrast, the second extruder prints the model, minimizing the risk of the nozzle on the motionless extruder interfering with the print job during dual or single extrusion printing.

Build Volume (W × D × H)

Single Extruder Print: 13" × 9.4" × 9.4"

Dual Extruder Print: 11.6" × 9.4" × 9.4"

The E2CF is an IDEX 3D printer optimized for 3D printing carbon fiber-reinforced filaments.

Contact us for More Information!

Key Features

- **Fully Enclosed**
- **New silicon carbide nozzles**
- **Air filtration system:** HEPA Filter
- **Hyperspeed**
- **Nozzles with High Durability**
- **Dual Direct Drive Extrusion System**
- **Raise3D Industrial PA12 CF Support Filament**
- **Sealed Dry Box**
- **ideaMaker Slicing Profiles**
- **IDEX (Independent Dual Extruders)**
- **Auto Bed Leveling**
- **Flexible Build Plate**
- **Mirror Mode**

Components:

- **Raise3D DF2 Printer**
- **Raise3D DF Wash**
- **Raise3D DF Cure**

shown with optional accessories

Raise3D DF2 Complete Package

The Raise3D DF2 Solution is a complete Digital Light Printing (DLP) 3D printer that excels in rapid printing, smooth surface quality, refined details, and remarkable reliability. The DF2 resin 3D printer has been optimized for engineering prototyping, manufacturing aids, and low-volume production with a diverse selection of high-performance engineering resins. RFID technology ensures a traceable workflow throughout the print, wash, and cure process, reducing labor time and saving costs.

Build Size (W × D × H)
7.87" × 4.41" × 11.8"

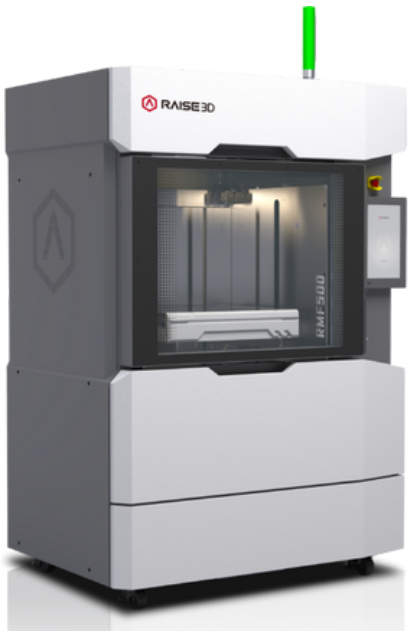
Key Features

- **Fully Enclosed**
- **Hyperspeed**
- **Air filtration system:** HEPA Filter
- **Washing Features:** Twin-turbo Washing, Hand Washing Simulation
- **Drying Feature:** Double Fan Air Drying
- **Drainage:** Automatic Liquid Drainage with Waste Container
- **Resin Management:** Auto Resin Feeding, Resin Level Detection, Resin Confirmation
- **RFID Print Platform:** Record the type of resin used and the printing, washing, and curing settings

Contact us for More Information!

3D Printers

shown with optional accessories



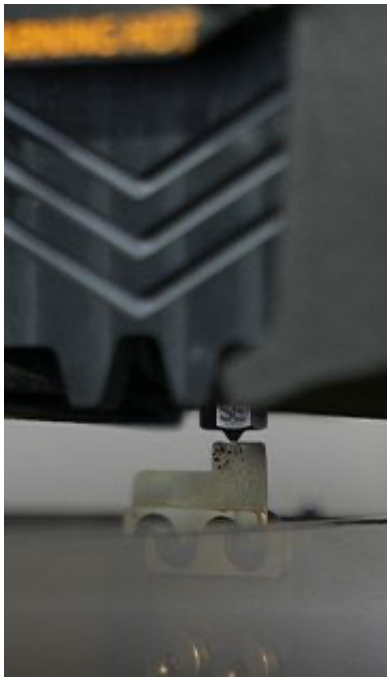
Raise3D RMF500

Raise3D RMF500 is a reliable and precise industrial 3D printer that produces small batch customized parts with high repeatability. It inherits Raise3D's proven expertise in FFF technology and polymer material science. Raise3D RMF500 has a large build volume of 500 x 500 x 500 mm and a maximum printing speed of 500 mm/s, making it an ideal choice for industrial manufacturing.

Build Size (W × D × H)
19.69" x 19.69" x 19.69"

Key Features

- **Fully Enclosed**
- **Air filtration system:** HEPA Filter
- **Hyperspeed**
- **22 lbs. Filament System:** guaranteeing at least 1 week of work
- **All steel frame**
- **Automatic nozzle wiping**
- **IDEX (Independent Dual Extruders):** Mirror Mode
- **Z-axis rod:** stiffness increased by 75% to deliver a more stable performance.
- **Engineered for High Repeatability and Precision**
- **Designed for Uninterrupted Production**
- **Diversified High-Performance Engineering Materials**
- **OFP (Open Filament Program):** Collaboration between Raise3D and filament manufacturers to identify and select top-performing filaments for the Raise3D ecosystem



Contact us for
More
Information!

Metal 3D Printers

Metal 3D printing is revolutionizing manufacturing by offering unparalleled design freedom, enabling the creation of complex geometries and intricate internal structures impossible with traditional methods. This technology produces strong, durable parts with excellent mechanical properties suitable for demanding applications. Industries like aerospace and automotive leverage metal 3D printing for lightweighting and performance optimization, while its customization capabilities benefit medical and high-end consumer goods. Rapid prototyping and on-demand tooling creation accelerate product development, and while initial investment can be significant, it leads to long-term cost savings through reduced waste and optimized designs. Compatible with a wide range of metals and alloys, including high-performance materials, metal 3D printing finds applications across aerospace, automotive, medical, tooling, and energy sectors, driving innovation and transforming how high-performance, customized metal parts are made.

Metal 3D Printers

Matched D200-E and S200-C for debinding and sintering processes

shown with optional accessories

Raise3D Forge1

Forge1 is the first Raise3D's printer able to **print metal** with user-friendly features for a reliable 3D printing experience, making it an excellent option for production and rapid prototyping for small batch metal parts.

Build Volume (W × D × H)

Single Extruder Print: 11.8" × 11.8" × 11.8"

Dual Extruder Print: 10" × 11.8" × 11.8"

Key Features

- **Auto Bed Leveling**
- **Fully Enclosed**
- **Air filtration system:** HEPA Filter
- **Hyperspeed**
- **Glass Build Plate**
- **Specialized Slicer:** ideaMaker for Metal, providing templates for all processes
- **The prints of Forge1 are compatible** with (MIM) Metal Injection Molding
- **Dual-head able to print Metal filaments:** including Ultrafuse® 316L, Ultrafuse® 17-4PH, and Ultrafuse® Support Layer

Contact us for
More
Information!

shown with optional accessories

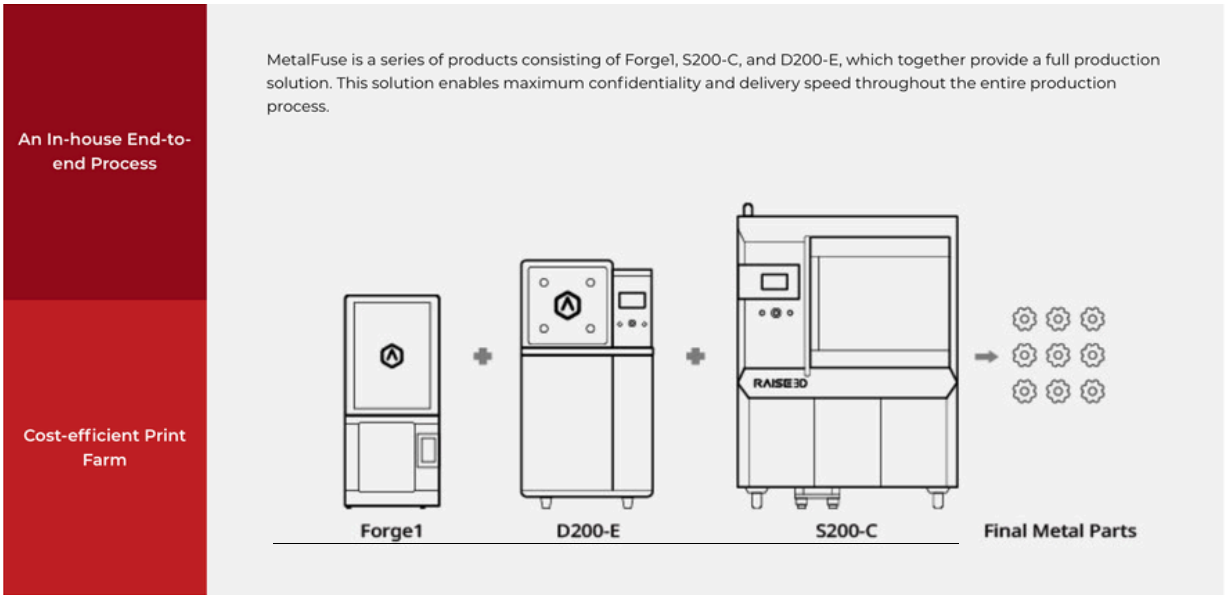
Package Includes:
Forge1
D200-E
S200-C

Raise3D MetalFuse

MetalFuse offers a complete solution, consisting of an indirect metal 3D printing process, paired with a special edition of ideaMaker compatible with MIM equipment. With this solution, MetalFuse's advantages include low overhead costs and the ability to perform batch production. MetalFuse saves more energy and is more environmentally friendly than processes such as CNC and SLM (Selective Laser Melting).

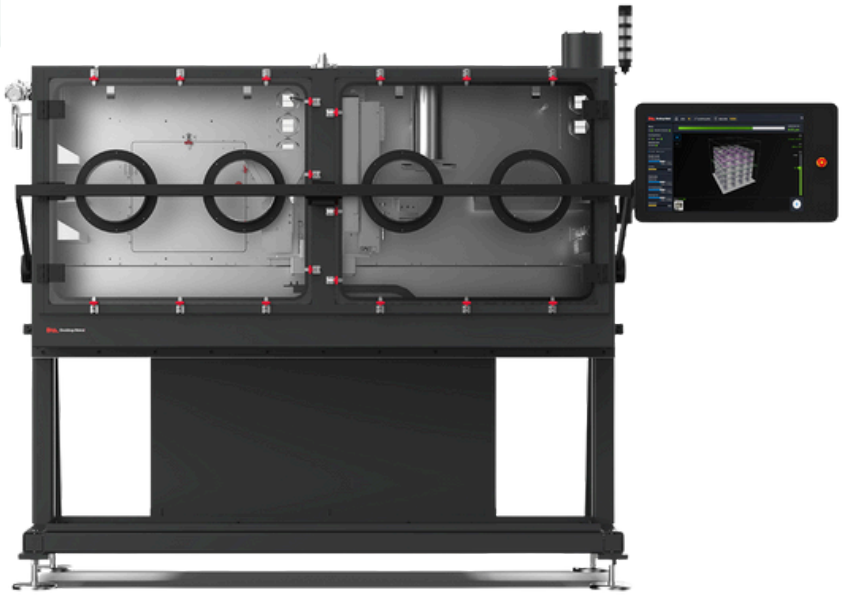
MetalFuse Offers a Complete Solution of:

- FFF metal 3D printing
- Paired with the debinding and sintering of green parts
- Similar to the MIM process



Contact us for
More
Information!

Metal 3D Printers

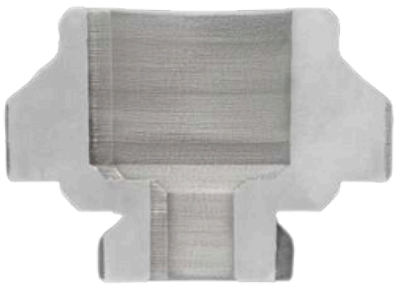


Desktop Metal P-1

Designed to bridge the gap between benchtop development and mass production, the P-1 offers the same excellent part quality as the P-50 with enhanced process flexibility. Featuring a state-of-the-art print bar with native 1200 dpi, an inert processing environment, and Desktop Metal's patent-pending Single Pass Jetting technology, the P-1 supports non-reactive and reactive materials at speeds more than 10 times those of laser powder bed fusion technologies[4] and is capable of printing multiple builds per shift and direct process transfers to the P-50.

Key Features

- **Print Technology:** Single Pass Jetting™
- **Print Direction:** Uni-directional
- **Build Box Size:** 7.9" x 3.9"x 1.6"
- **Resolution:** Native 1200 dpi
- **Max Build Rate (65 micron layer thickness):** 1,350 cc/hr (82 cu in/hr)
- **External Dimensions:** 70" x 79" x 45"



High-speed mass production of metal parts with patent-pending Single Pass Jetting (SPJ) technology.

shown with optional accessories

Steps:

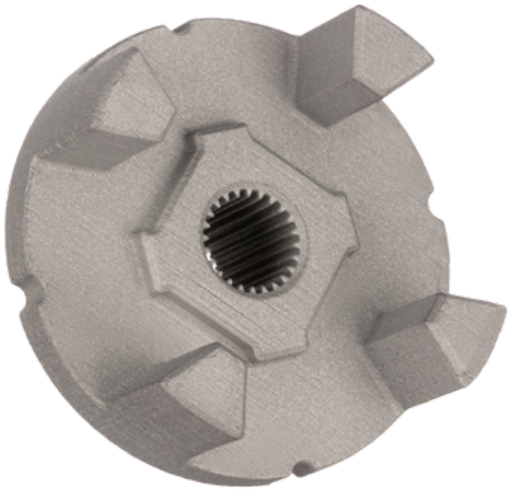
1. **Print**
2. **Depowder**
3. **Sinter**

Desktop Metal P-50

Designed to be the fastest way to 3D print metal parts at scale, the P-50 leverages Desktop Metal's patent-pending Single Pass Jetting technology and bidirectional printing to achieve speeds up to 100 times those of laser powder bed fusion technologies[4]. It produces parts in volumes and at costs competitive with conventional mass production techniques. Featuring a state-of-the-art print bar with native 1200 dpi, an inert processing environment, and constant wave spreading for print bed uniformity, the P-50 offers the quality, reliability, and economics required for high-volume, end-use applications.

Key Features

- **Print Technology:** Single Pass Jetting™
- **Print Direction:** Bi-directional
- **Build Box Size:** 19.2 x 15 x 10.2 in
- **Resolution:** Native 1200 dpi
- **Max Build Rate (65 micron layer thickness):** 12,000 cc/hr (732 cu in/hr)
- **External Dimensions:** 1.9 x 5.0 x 1.9 m (75 x 197 x 75 in)



High-resolution 3D printing and a uniform print bed allow the Production System™ to produce dense, high-quality parts capable of performing in the most demanding applications.

Metal 3D Printers

shown with optional accessories

shown with optional accessories

Desktop Metal InventX

Compact

The most compact binder jet 3D printer for producing metal, ceramic, or composite parts. Launched in 2018, this easy-to-use system features Triple ACT and a piezoelectric printhead. It's suitable for education, research, prototyping, rapid product development, and short-run production of small components.

Build Volume (W × D × H)
6.3" x 2.5" x 2.5"

Key Features

- **Fully Enclosed**
- **Hyperspeed**
- **Air filtration system:** HEPA Filter
- **Print Technology:** Triple Advanced Compaction Technology™
- **Print Direction:** Uni-directional
- **Max Build Rate (65µm layer thickness):** 54 cc/hr (3.3 in³)
- **Binder Systems:** AquaFuse™, CleanFuse™, FluidFuse™, PhenolFuse™
- **External Dimensions:** 47.5" x 36.8" x 56.5"

Desktop Metal X25Pro

Mid-volume

This mid-volume advanced binder jet 3D print system, launched in 2020, is already being used globally to produce metal, ceramic, and composite parts. It features Triple ACT and a piezoelectric printhead and is suitable for research, prototyping, rapid product development, short-run production, or continuous 24/7 production.

Build Volume (W × D × H)
15.75" x 9.84" x 9.84"

Key Features

- **Fully Enclosed**
- **Hyperspeed**
- **Air filtration system:** HEPA Filter
- **Print Technology:** Triple Advanced Compaction Technology™
- **Print Direction:** Uni-directional
- **Max Build Rate (100µm layer thickness):** 1,800 cc/hr (110 in³/hr)
- **Binder Systems:** AquaFuse™, CleanFuse™, FluidFuse™, PhenolFuse™, TurboFuse™
- **External Dimensions:** 98" x 71.5" x 91"

Binder jet 3D printing featuring patented Triple ACT for excellent surface quality and specialty materials, including both metals and ceramics.

shown with optional accessories

Desktop Metal X160Pro

Large-Volume

The world's largest binder jet 3D printer for producing metal, ceramic, or composite parts. This system features Triple ACT and a piezoelectric printhead. It's designed for continuous 24/7 production, yet supports short-run production, rapid product development, and even research and prototyping

Build Volume (W × D × H)
31.5" x 19.7" x 15.8"

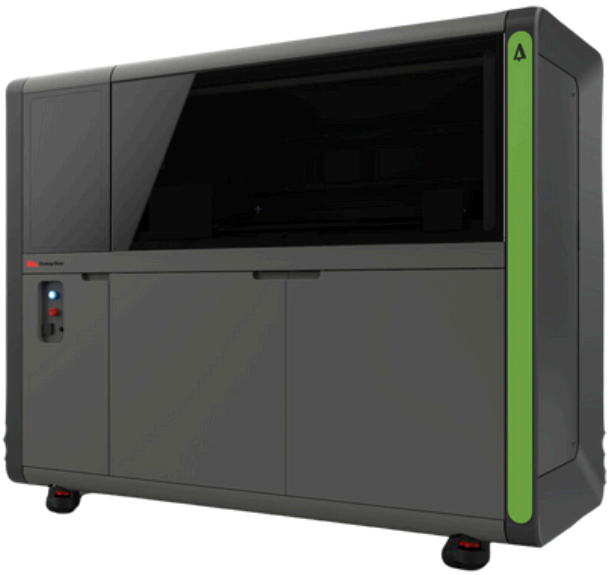
Key Features

- **Fully Enclosed**
- **Hyperspeed**
- **Air filtration system:** HEPA Filter
- **Print Technology:** Triple Advanced Compaction Technology™
- **Print Direction:** Uni-directional
- **Max Build Rate (65µm layer thickness):** 3,120 cc/hr (190 in^3)
- **Binder Systems:** AquaFuse™, CleanFuse™, FluidFuse™, PhenolFuse™
- **External Dimensions:** 141" x 95" x 103.6"

The X-Series is used to process stainless steels, tool steels, nickel alloys, aluminum and titanium alloys, metal composites and ceramics, such as silicon carbide and aluminum-infiltrated boron carbide (B4C).

Metal / Wood 3D Printers

shown with optional accessories



shown with optional accessories

Desktop Metal Shop System Printer
Metal Printer

The Shop System™ printer features the most advanced printhead on the market, with over 70,000 nozzles jetting 1.2pL droplets at nearly 10 kHZ to achieve high-resolution, 3D-printed parts at a fraction of the cost of laser-based systems.

Key Features

- **Fully Enclosed**
- **Hyperspeed**
- **Air filtration system:** HEPA Filter
- **Build Sizes:**

1. 350 x 220 x 200 mm
2. 350 x 220 x 150 mm
3. 350 x 220 x 100 mm
4. 350 x 220 x 50 mm

- **Resolution:** 1600 x 1600 DPI
- **Footprint:** 78.5" x 30" x 64"

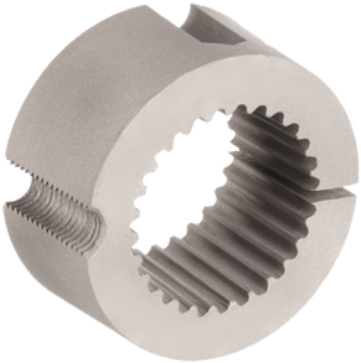
Desktop Shop System Forust Edition
Wood Printer

Unlike particle board or laminate, Forust produces 3D-printed, digitally rematerialized wood with grain that flows across the entire part and can be sanded and refinished. The Forust process can mimic almost any wood grain, from ash to zebrano, ebony to mahogany.

Key Features

- **Fully Enclosed**
- **Fabricate MFG build prep software:** print parts with no or four grain patterns.
- **Shop System Forust Edition:** This binder jet 3D printer has a build box of 13.8" x 8.7" x 7.9" and a print speed of 1,600 cc/hr, which is about 4/5 of an inch in Z-height per hour.

Metal Printer



Wood Printer

Metal 3D Printers

shown with optional accessories

Desktop Metal Studio System Printer

Unlike laser-based systems that selectively melt metal powder, the Studio System extrudes bound metal rods—similar to how an FDM printer works. This process eliminates many safety requirements often associated with metal 3D printing while enabling new features like fully closed-cell infill for lightweight strength.

Key Features

- **FullyEnclosed**
- **Hyperspeed**
- **Air filtration system:** HEPA Filter
- **Build Area:** 12" x 8" x 8"
- **Print Head:** 250 µm high-resolution nozzle
  400 µm standard-resolution nozzle

Desktop Metal Studio System Furnace

Designed to be the easiest sintering furnace, the Studio System 2 furnace first heats parts to remove all binders from parts, then ramps up the temperature to near-melting to deliver industrial-strength sintering in an office-friendly package. Built-in temperature profiles tuned to every build and material ensure uniform heating and cooling without the residual stresses introduced in laser-based systems.

Key Features

- **Fully Enclosed**
- **Retort Size:** 12" x 8" x 6.7" (30 x 20 x 17cm)
- **Peak Temperature:** 2552°F (1400°C)
- **Environment:**

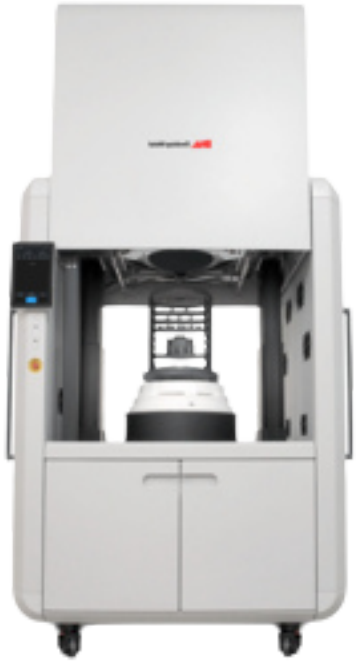
1. Argon
2. Argon + Hydrogen Blend
3. Inert vacuum sintering

Office-friendly metal 3D printing in just two steps — Print. Sinter. Available Now.

Furnaces

3D printing furnaces are essential for optimizing 3D-printed parts, especially metal and ceramic. They enhance material properties through sintering and heat treatment, achieving desired microstructures and removing binders. Furnaces ensure dimensional accuracy, expand material options, and improve part quality by minimizing defects. Different furnace types cater to specific needs, making 3D printing a viable manufacturing solution for diverse applications.

www.catt-llc.com 970-686-0379 jslupe@catt-llc.com



Desktop Metal PureSinter Furnace

PureSinter delivers a breakthrough in premium vacuum furnace performance for sintered powder metal applications. Its new approach turns furnace design inside out, enabling heat to work as a purifier and preventing contaminants such as oxygen from entering the retort during sintering.

The benefits include improved reliability, final material properties, and a pure atmosphere that enables faster production for scaling of metal powder projects across a wide array of materials.

- **Atmosphere:** Partial-pressure sintering (5-500 Torr)
- **Heating:** 12 Standard Resistive Heating Elements surrounding a silicon carbide retort
- **Power Requirements:** 200-220 V, 40A, 3ph, 50/60hZ or 380-415V, 20A, 3ph, 50/60hZ
- **Volume:** 15.8 L (0.56 ft^3)
- **Max Temperature:** 2,588°F (1,420°C)
- **Gas Types:** Argon, nitrogen, forming gas, or clean dry air (binder, material, and temperature dependent)

Built for ease of use, performance, and reliability, the all-new vacuum furnace for combined debinding and sintering features breakthrough industrial performance at an affordable price.

Career and Technical Training, LLC.

128 N 6th St. UNIT C.
Windsor, CO 80550
www.catt-llc.com
Contact Us for Info and Ordering:
jslupe@catt-llc.com (970) 686-0379

Quality • **Durability** • **Service**

CATT

Career and Technical Training, LLC