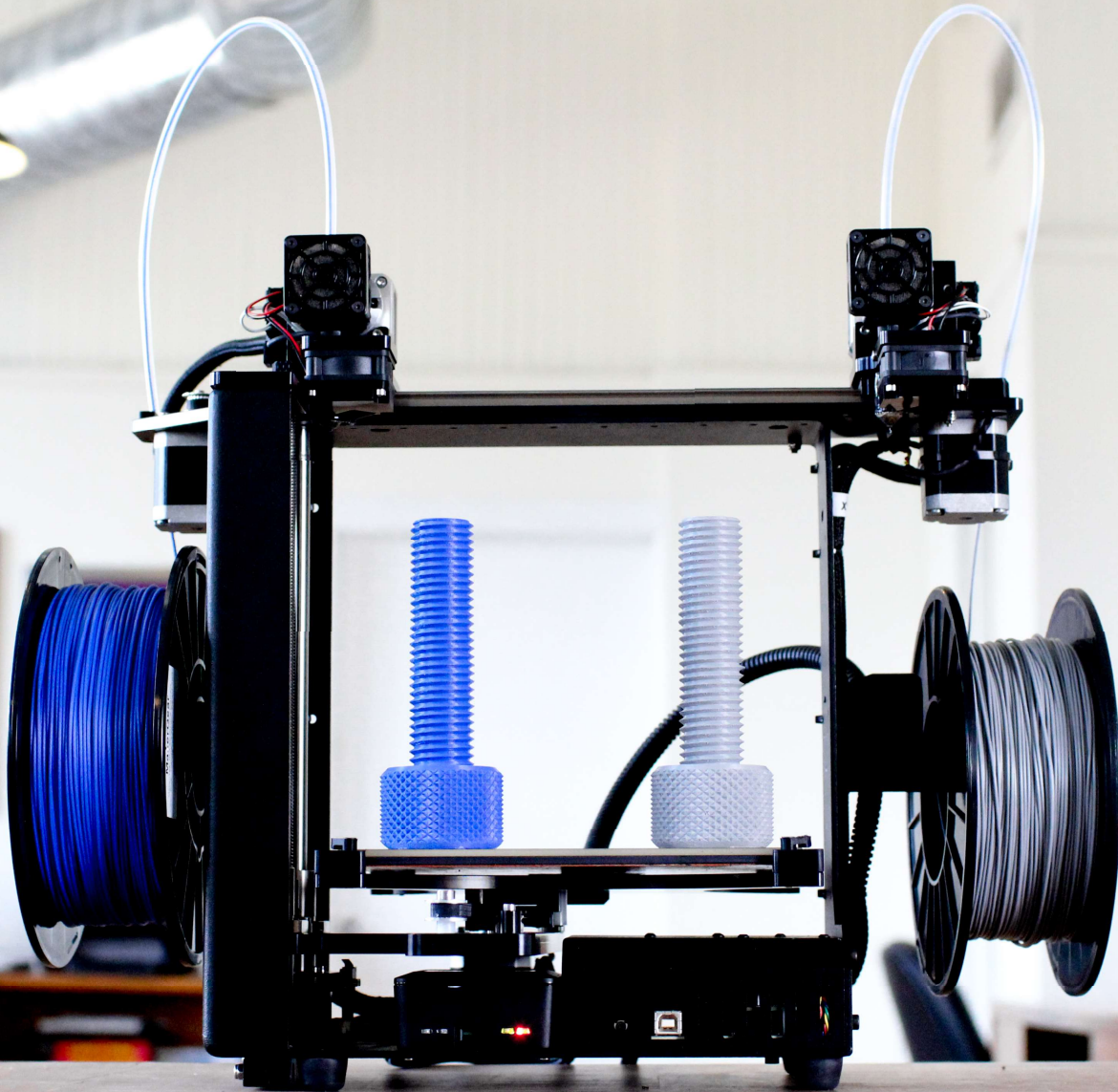




MAKERGEAR M3 Independent Dual

PRODUCT KIT
M3-ID

Famously Reliable, Independent by Design



MakerGear® LLC
23632 Mercantile Road - Unit G
Beachwood, OH 44122 USA
www.makergear.com

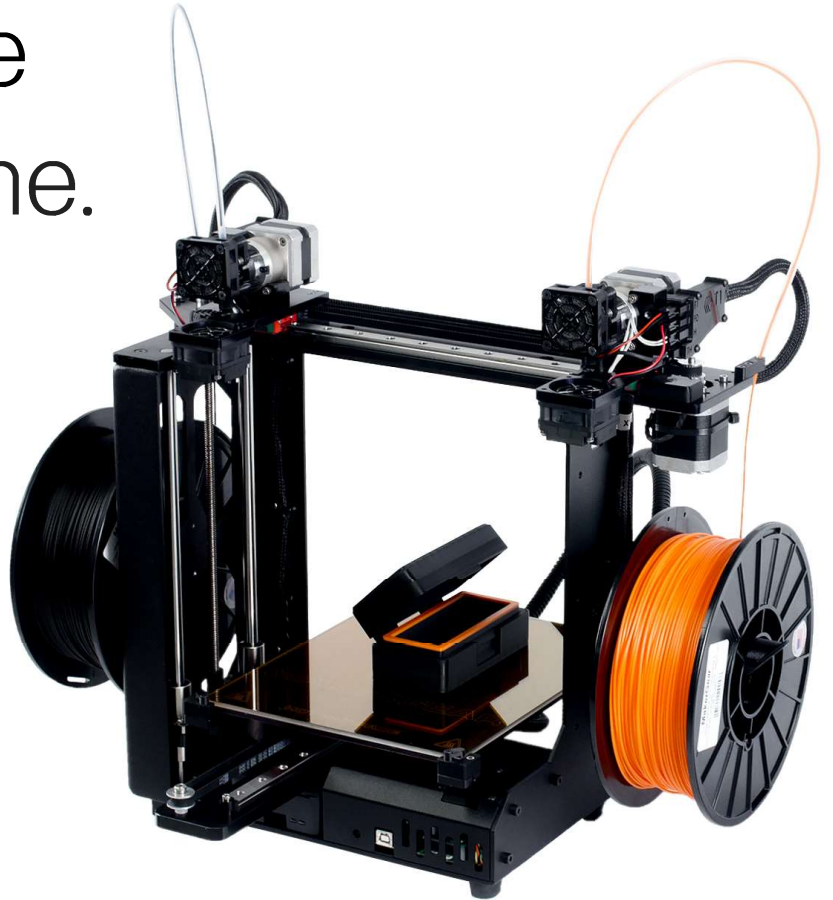


Two Heads are Better Than One.

The MakerGear M3 Independent Dual (M3-ID) is independent by design, enabling you to print more reliably in a shorter amount of time.

While one extruder is busy printing, the other is parked to the side and will not interfere with your print.

When it's time to switch, the extruders quickly change roles to continue the build with maximum speed and efficiency.



Two Colors

Print crisp, clean lines on multicolor models, right out of the box.

The M3-ID is designed with flexibility in mind, giving you the freedom to use a broad range of filaments in the materials and colors of your choice.

Two Materials

Mix and match materials and composites to achieve the ideal balance of mechanical, thermal, and chemical properties. Combine flexible components to achieve specific mechanical properties.

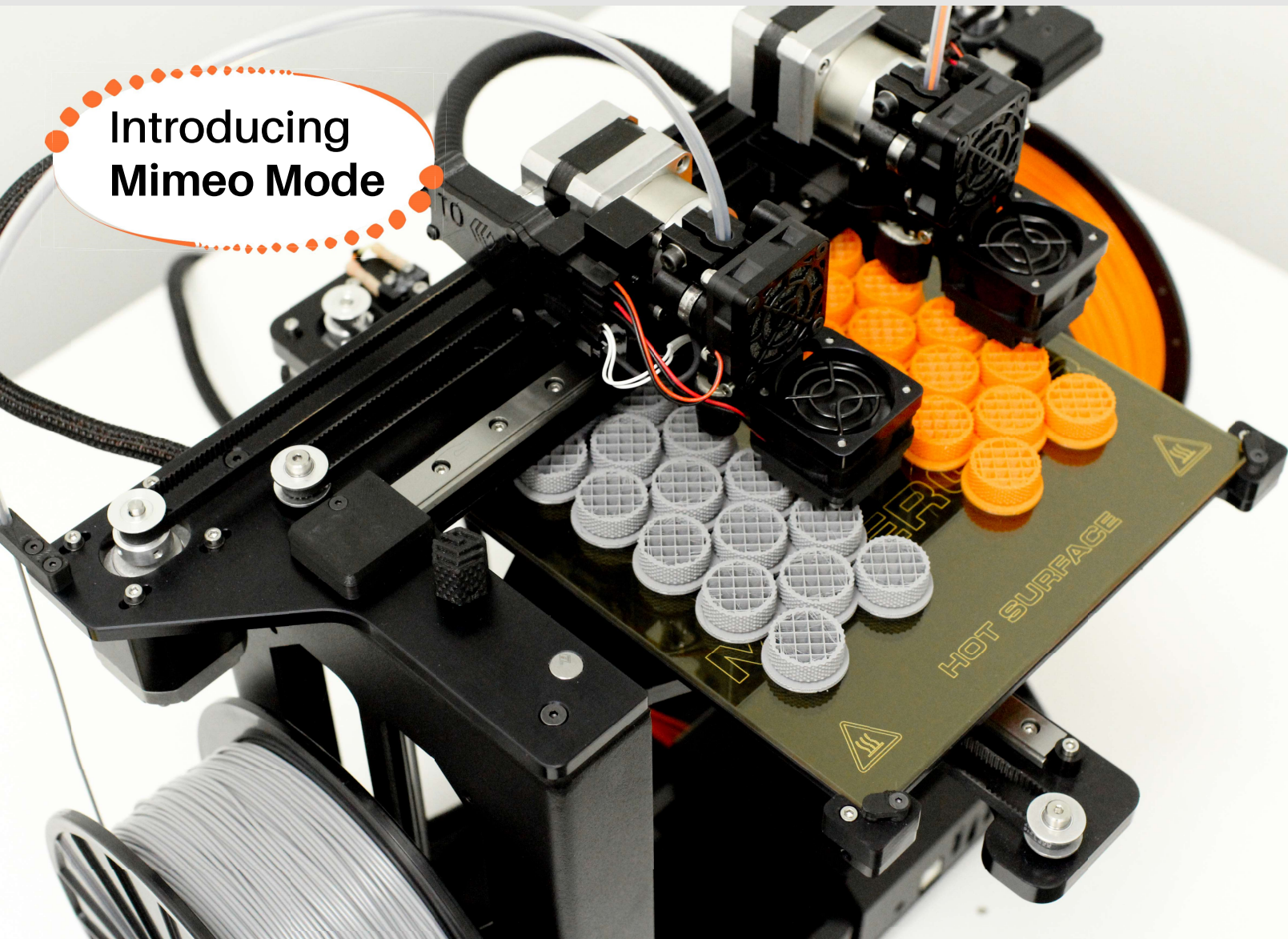
Soluble Support

Print complex and intricate parts using soluble support materials, and save on material costs when using the Optimized Soluble Support features available with Simplify3D 4.0.

Speedy Infill

Finish prints faster when using different diameter nozzles on each extruder. Use a course nozzle for infill and a fine nozzle for all external features and you'll get a speedy infill with a high-resolution finish.

Introducing
Mimeo Mode



Double Your Throughput

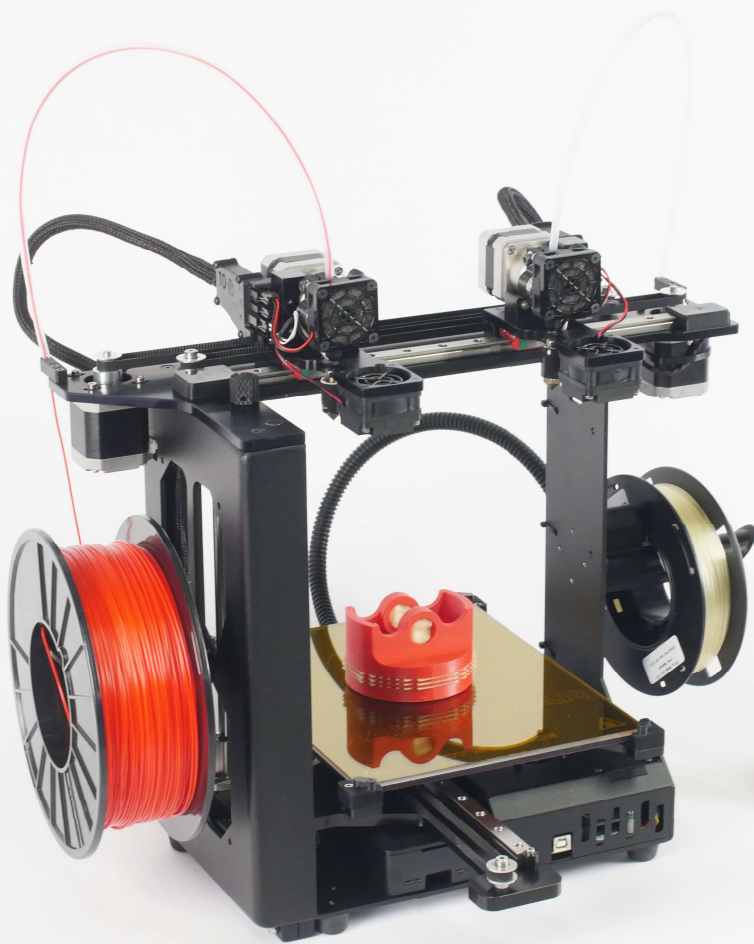
Mimeo Mode

We've changed the way dual is done. The MakerGear M3-ID is the first desktop 3D printer to fully support duplication printing with independent extruders, enabling simultaneous printing for parts up to 100 x 254 x 203 mm.

Unlike traditional dual systems, where both extruders are locked into the same task, the M3-ID's extruders are designed to work simultaneously and independently with the M3-ID's Mimeo Mode.

Independent extruders can double your printing capacity.





Ready to Run. Built to Last.

True-Leveling™

True-Leveling is based upon a precise, software-assisted mechanical calibration process. Unlike “auto-leveling” which does not level the print surface, True-Leveling offers a calculated approach to bed calibration by integrating hardware, software, and firmware controls.

Dimensional Precision

Enabling users to create parts with highly accurate external and internal features out of the box and for years to come, this is the reason MakerGear has been awarded best-in-class, year after year.

Modular Design

Each print head is completely modular and runs on independent drives. They are easily accessible and developed for long-term performance.

MakerGear’s V4 hot ends are sleek, simple, and swappable. Available in a variety of sizes ranging from 0.25 mm - 0.75 mm, they come in brass and stainless steel and reach temperatures up to 300 °C.

Wi-Fi Enabled

Wireless printer controls from tablet, phone, or remote device connected through your LAN provide the ability to control multiple printers from a single device, making the M3-ID ideal for printer farms, schools, and businesses.

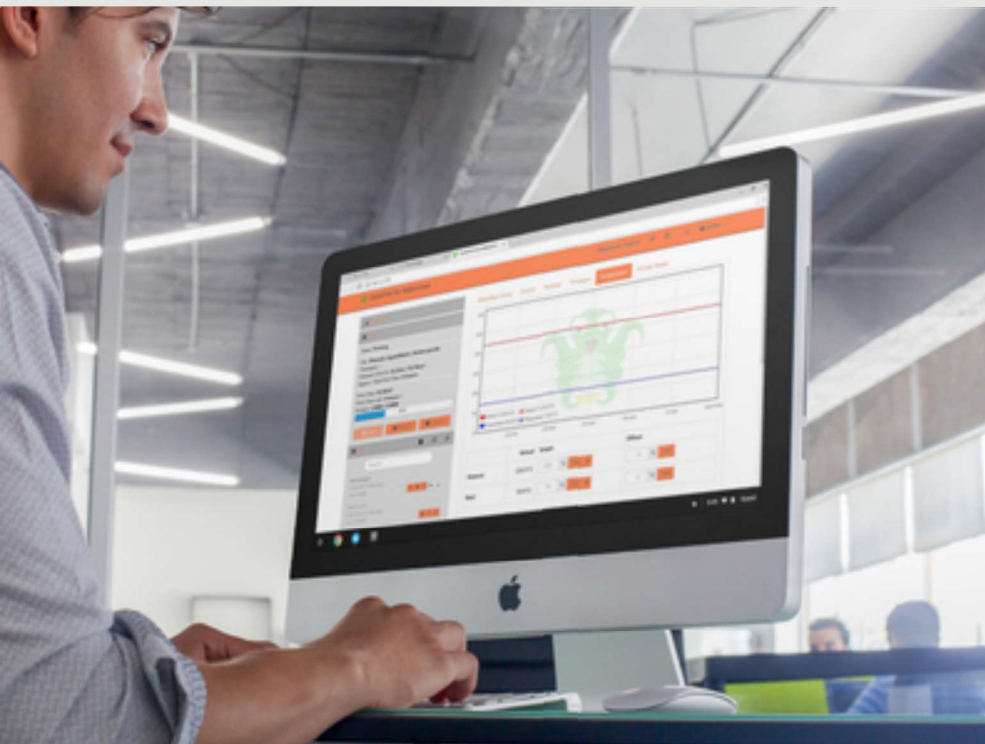
Variety of Print Materials

The M3-ID prints in a broad range of materials including:

- ABS
- Polycarbonate
- HIPS
- Polypropylene
- Nylon
- PVA Dissolvable Support
- PET-G
- Flexible (TPU, TPE, etc.)
- PET-T
- Carbon fiber and other composites
- PLA

and is compatible with many additional materials.

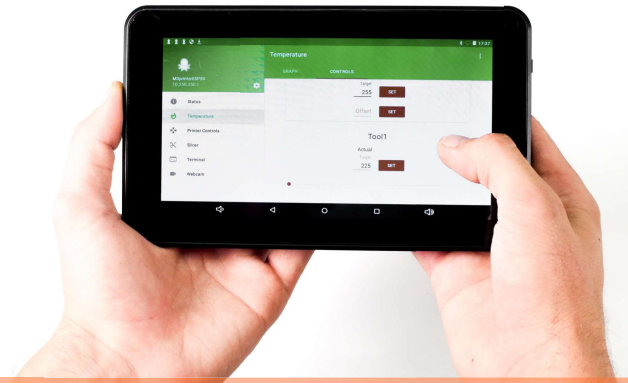




Industry-Leading Software

OctoPrint for MakerGear

Access everything you need in one place. From tutorials and tech support, to temperature controls and live monitoring, OctoPrint for MakerGear offers an integrated user experience with advanced customization options.



Every MakerGear M3-ID includes a Simplify3D 4.0 software license, allowing for advanced file preparation and print optimization. Controlling the M3-ID has never been easier thanks to OctoPrint for MakerGear: a highly adaptable web-based control interface for your 3D printer that also enables advanced customization options.

Warranty and Protection Plans



Peace of mind comes in many forms, choose what works for you.

Every MakerGear M3-ID comes with a standard **12-month warranty** that includes phone and email support and fast, free fulfillment on warranty parts shipped USPS Priority or FedEx Ground.*

Want even better coverage? Signup for the **MakerGear Premium Protection Plan** to extend your peace of mind for years to come.

*Non-US customers are responsible for shipping charges.

Specifications

PRINTER & PRINTING PROPERTIES

Technology	Fused Filament Fabrication (FFF)
Print Head	Independent Dual Extruders (direct, non-Bowden)
Build Volume	Head One: 203 x 254 x 203 mm Head Two: 180 x 254 x 203 mm Mimeo Mode: 100 x 254 x 203 mm per extruder
Filament Diameter	1.75 mm
Layer Resolution	0.020 - 0.350 mm (20 - 350 µm)
Movement Resolution	0.001 mm (1 µm) per micro-step
Print Head Travel Speed Range	30 - 450 mm/s
Build Speed	0.35 mm nozzle: up to 18 mm ³ /s
Build Plate	Borosilicate glass plate coated with polyimide film
Build Plate Temperature	5 - 130 °C (enclosed), 5 - 120 °C (not enclosed)
Assisted Leveling	Yes
Assisted Leveling Method	True-Leveling™
Printable Materials	ABS, ASA, HIPS, Nylon, PET-G, PET-T, PLA, polycarbonate, polypropylene, PVA, TPE, TPU, metal composites, wood composites, carbon fiber composites, and more
Nozzle Type & Diameter	Brass 0.35 mm standard, 0.25 - 0.75 available Stainless Steel 0.35 - 0.5 mm available
Nozzle Temperature	180 - 300 °C
Nozzle Heat Up Time	< 2 minutes (220 °C)
Build Plate Heat Up Time	< 4 minutes (70 °C)
Operating Sound	< 65 dBA
Connectivity	Wi-Fi, LAN, USB
Monitoring	Remote Monitoring Upgrade Kit (coming soon)

PHYSICAL DIMENSIONS

Dimensions with Spool & Full Range of Motion	533 mm (21") x 610 mm (24") x 533 mm (21")
Unit Weight	13.5 kg (29.5 lbs)
Shipping Weight	21.5 kg (47 lbs)
Shipping Box Dimensions	533 mm (21") x 533 mm (21") x 635 mm (25")

POWER

AC Input	100 - 120 V (4 A)/ 220 - 240 V (2 A), 47 - 63 Hz 100 - 120 V (4 A)/ 220 - 240 V (2 A), 47 - 63 Hz
Power Requirements/Consumption	24 V DC @ 15 A/ 360 W maximum

SOFTWARE

Supplied Software	Simplify3D 4.0, OctoPrint for MakerGear
Printer Interface	OctoPrint for MakerGear
Compatible Software	With no proprietary software required, the MakerGear M3-ID is compatible with a wide variety of free/commercial modeling, slicing and hosting software programs.
Supported OS	MacOS, Windows, Linux, iOS, Android
File Types	STL, OBJ, gCode



Global Accolades

There's a reason MakerGear has been chosen by thousands of users in all 50 states and more than 75 countries to create prototypes and products for business, classrooms, labs, and the marketplace. And there's a reason we've been awarded the best in class by 3D Hubs for three years running.



For Businesses & Professionals

Round holes, smooth surfaces, clean layer changes, and sharp corners - the M3-ID delivers the print quality and reliability needed for prototyping and product manufacturing day after day, year after year. Need more than one? Talk to us about getting a print lab up and running in your business.



For Schools

Whether your goal is to bring 3D printing to one classroom or an entire school district, MakerGear is dedicated to providing the information, tools, and support necessary to equip your students with the skills to succeed. Ready to use out of the box, low maintenance, and built with flexible software options, the M3 is ready for your classroom.



For Makers

Our company was founded by Makers. And since the beginning we've had an active community of dreamers and doers creating and sharing their inspiring work on our MakerGear Forum. We are proud to provide the precision tools that bring your ideas to life.

Meet MakerGear



MADE IN THE USA Our factory is located in Beachwood, Ohio where all of our machines are built and individually tested before shipping. Many of our components are manufactured within 25 miles of the factory including the fabricated steel frame and steel parts, machined cast aluminum alignment components, extruder parts and the wiring harness. Off the shelf components (motors, power supply, etc.) are sourced from domestic and foreign suppliers.



INDUSTRIAL PRECISION MakerGear products are tools, not toys. MakerGear printers are designed, engineered, manufactured, and inspected according to standards that ensure optimal performance for professionals and innovators— from designers, engineers, and architects to teachers and business owners, as well as hobbyists, DIY enthusiasts, and costume designers — in dozens of industrial applications.



REAL CUSTOMER SERVICE If you ever need to contact MakerGear for support, our team is staffed with the most knowledgeable and responsive MakerGear experts. We have an established record of providing prompt, friendly, and expedient technical support, by phone and email.



THRIVING COMMUNITY When you purchase a printer from MakerGear, you become part of the thriving MakerGear community - an enthusiastic, engaged, and helpful group of 3D printing experts — particularly designers, engineers, educators, and hobbyists. Whether you are 3D printing industrial parts, architectural models, DIY quad-copter drones, or your favorite cosplay props, the MakerGear Forum offers a wealth of guidance and information about 3D printing. Join our vibrant network of makers and professionals, and contribute to our ever-growing community in which designs, inspiration, and advice are freely shared.



Contact Us

23632 Mercantile Rd. - Unit G
Beachwood, OH 44122 USA
216-765-0030

www.makergear.com

Sales

sales@makergear.com

Technical Support

www.makergear.com/support
(216) 508 - 4025

