

FABLICATOR

MX Series

Additive Manufacturing Workstation

Professional Quality for Education and Industry



The Fablicator MX is unlike any other 3D Printer on the Market.

It is a complete 3D Printing workstation, capable of designing (when CAD is installed), slicing, and printing 3D models without needing a separate computer. It is a complete printing solution for schools, offices, laboratories, and factories alike.

The MX ships completely assembled, tested, and calibrated. It is ready to make fast, accurate parts right out of the box.

The Fablicator MX features a unique dual extruder system, capable of making parts using different materials or support materials, while maintaining exceptional part quality.



Proudly Designed & Manufactured in the USA, by K&L Services Group Inc.

Offices@ 215 N. 8th Street Allentown, PA 18102 PH: 610-349-1358 sales@fablicator.com

FABRICATOR MX **Product Features**

- **Dual Independent Print Heads** - The Fabricator MX parks one print head while the other is working, allowing precise dual material prints without the second head dragging through the print. Both heads can also work simultaneously to create 2 copies of the same single material part
- **“Easy Peel” Support Material** - A specially formulated support material easily peels away from parts, allowing support material to be quickly and easily removed without the use of chemical solvents.
- **Designed, Manufactured, and Tested in the USA** - Each Fabricator is built and tested by our staff to meet rigorous standards of function and quality before shipping.
- **No Assembly Required, or Software to Install** - The Fabricator arrives to you with a fully integrated wired and wireless network ready Windows operating computer with all of the software pre-installed and settings established to begin printing right away. All you need to start making parts is to plug in a mouse, keyboard, monitor and have a 3D model of what you wish to make.
- **Design System Capable** - Since the Fabricator has a fully functional PC operating on Windows, most standard CAD packages are a simple install on the printer, allowing the design, editing and printing of a part to take place all on one machine.
- **Complex Parts** – Easy peel support and layer heights down to 60 microns allows the Fabricator MX to create intricate designs not possible with most traditional manufacturing methods.
- **Rigid Extruded Aluminum Frame** - You can literally stand on it, and it will not warp with changing humidity. The Fabricator is built for reliability, and is at home on the factory floor as well as in the office.
- **Precise Filament Deposition** - Carefully engineered mechanics allow the Fabricator to print parts quickly and with excellent surface finish, exceeding that of 3D printers costing much more.
- **Large Print Area ~ 14 x 8.5 x 10** - Larger than a sheet of standard paper, the Fabricator MX has a build area suited to the needs of serious users.
- **Reusable Build Surface** - The Fabricator uses a unique chemically treated glass build surface, which allows parts to stick firmly when printing and release with ease once the platform has cooled. Parts can be printed directly on the build surface and do not have any "rafts" to be removed.
- **Material Versatility** - The Fabricator was designed for ABS, HIPS, PETG and PLA. Additionally, PVA, Nylon, and others have also been successfully printed by some users.
- **Static Dissipative Materials** – When using static compliant materials, the Fabricator is ideal for making jigs and prototypes used with delicate electronics.

Technical Specs

- Dual Extruders
 - Print Bed Area: ~ 14 x 8.5 x 10 in (355 x 215 x 254mm)
 - Print Volume: 1049in³, (17liter)
 - Flow Rate: Up to 1.25in³ (20cm³) per hour
 - Overall Dimensions: 24x 18 x 22in (610 x 460 x 560mm)
 - Weight: 44lbs (20 Kg)
 - Power Requirements: 100-240V, 50/60Hz, 5.5A
 - Filament Size: 1.75mm
 - Nozzle Diameter: .35mm
 - High Quality 3D Printed Parts
 - Maximum Travel Speed 250mm/s
 - Maximum Print Speed: 80mm/s
 - Filament types ABS, PLA, HIPS, PVA, Nylon, PETG, and more
 - Standard Default Layer Height: 0.1mm-0.3mm
 - Heated Bed: adjustable temperature for different print materials
 - Maximum recommended extruder temperature: 400 C
 - Maximum temperature for heated build platform: 125 C
 - Support material: Automatically generated: “Easy Peel” (when dedicating an extruder to support) or same material break away w/ running two print colors.
 - Linear ball bearing & Precision ground 12 mm shafts

Computer Hardware:

- 3.2GHz Core i5 - 6500
- 256gb SSD
- 8gb Ram
- 2x front usb, 4x rear usb
- VHA, HDMI
- Wired and Wireless Network Ready
- Intel 550 Graphics

Software:

- Operating System: Microsoft Windows 10 Pro
- 3D printing software: KISSlicer, Pronterface
- Input file type: STL, gcode
- Fusion 360, Inventor, and Solidworks capable.