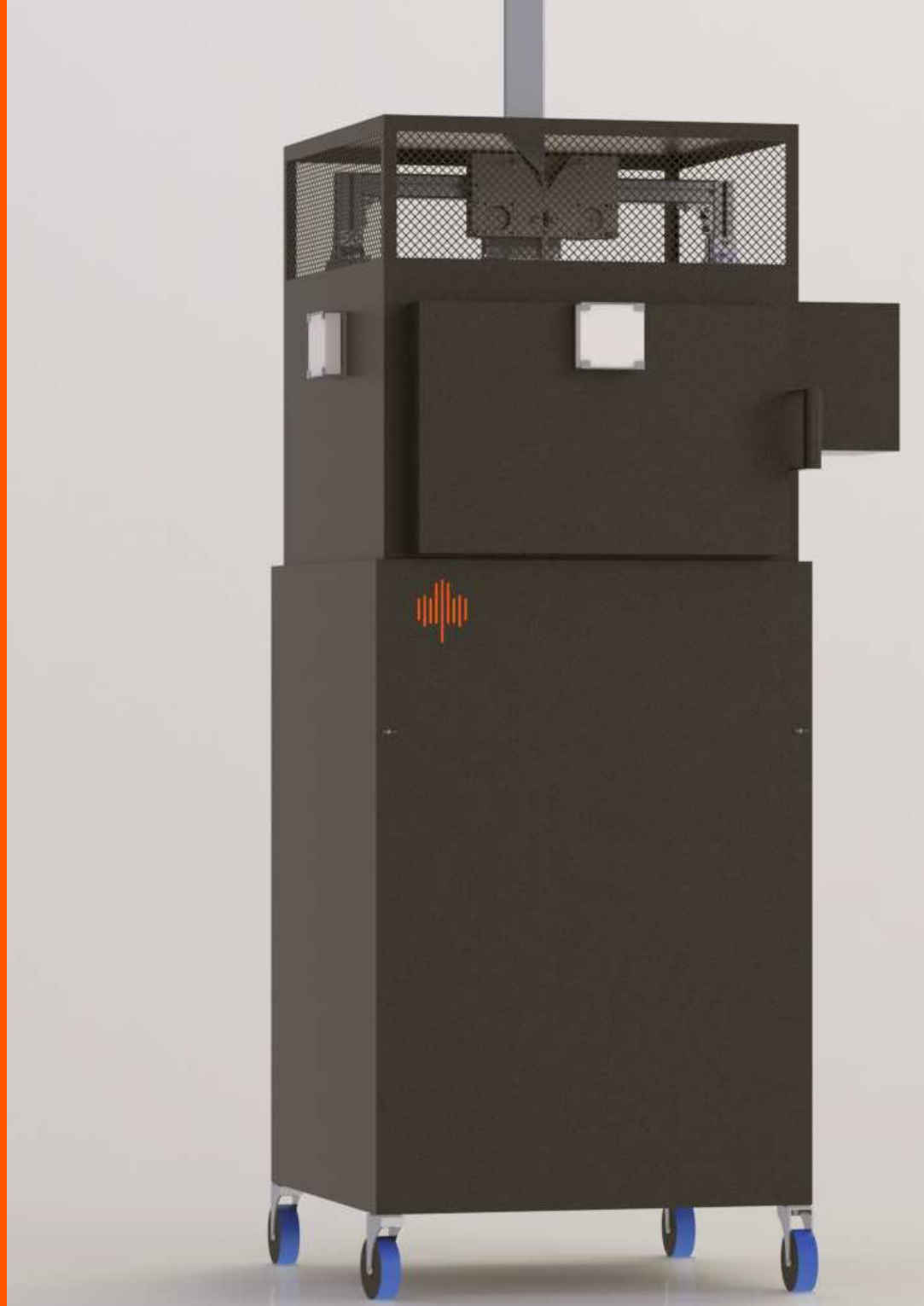
The Maple 2™

The worlds first affordable 3D Glass Printer.

mapleglassprinting.com

Maple Glass Printing™



Art • Packaging • Research • Recycling

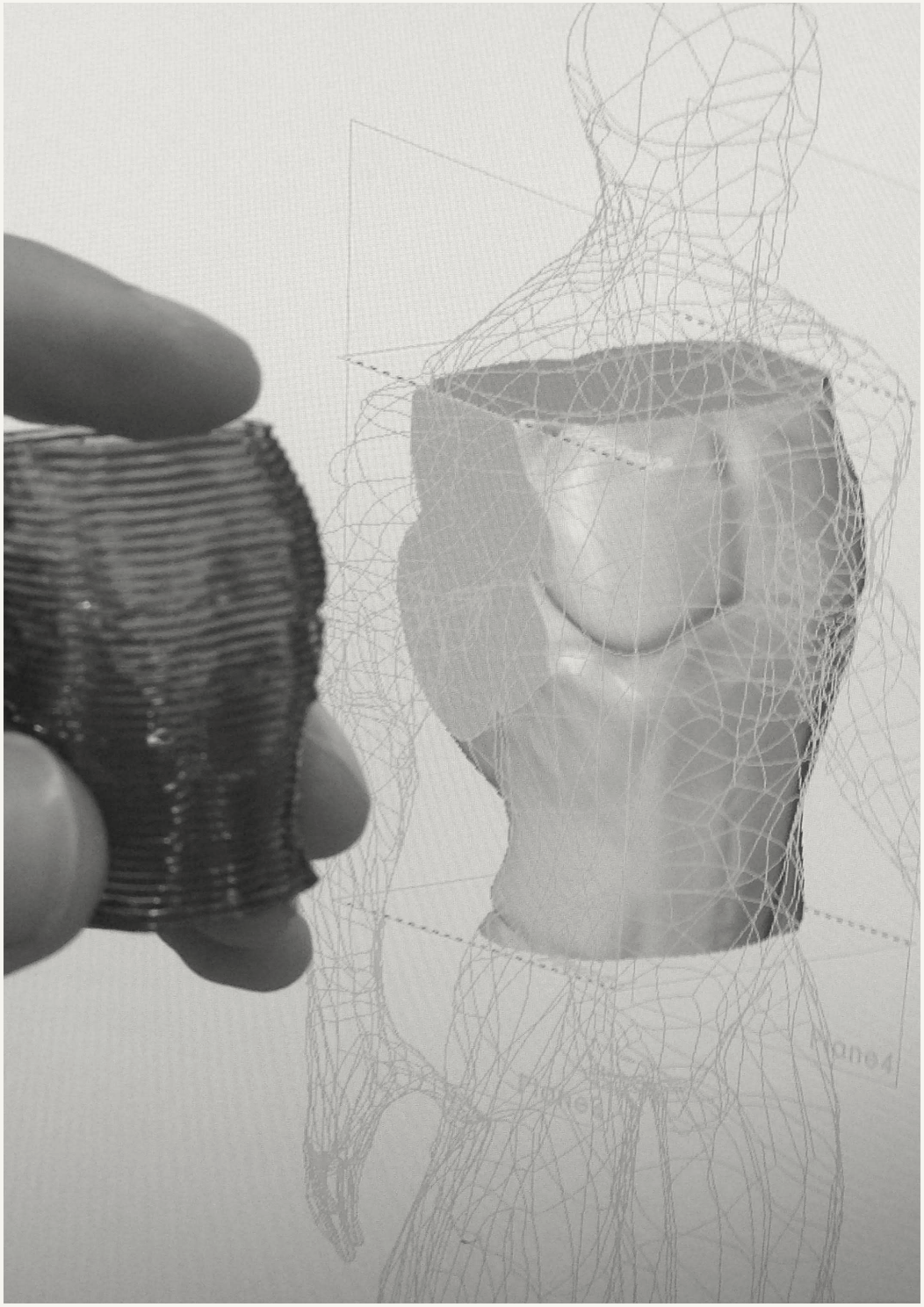
Sustainably Create. Design with Freedom.

The Maple 2™ Glass 3D Printer allows complex digital designs to be produced in glass. Our unique technology removes the typical hassle of glass manufacturing techniques, empowering you to create intricate glass pieces quickly and easily.

Rapid Prototypes

Typically, glass pieces require large equipment, metal moulds and virgin material. This means that creating low volume glass pieces with intricate detail is particularly challenging. With our 3D printers, customers will be able to create rapid prototypes with unique designs and iterate with high repeatability.

Design Power

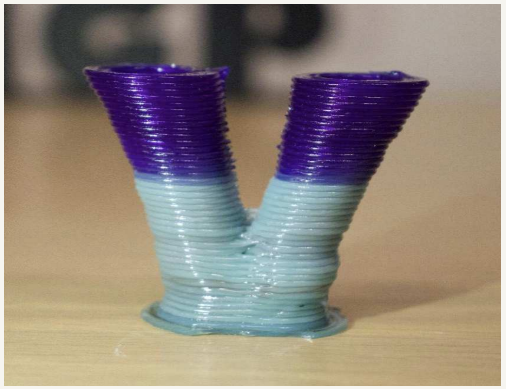


Leverage the synergy between technology and additive manufacturing. Come up with an idea and use Computer Aided Design (CAD) to create a 3D model prototype. Together with our easy-to-use software, convert your model to a printer instruction file and bring your idea to life with glass.

Reduce, Reuse and Recycle

Our mission is to reduce glass waste by 3D printing it. Large architectural glass 3D prints are more expensive and require large amounts of typically non recycled glass to use. By using recycled glass, our patent pending machine can print detailed glass pieces with an economically viable process.

Printing Capabilities

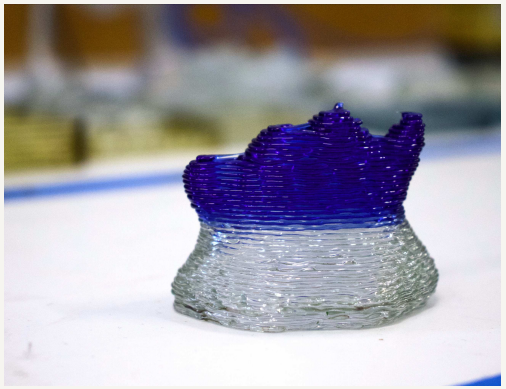


[1]

Multiple Contours

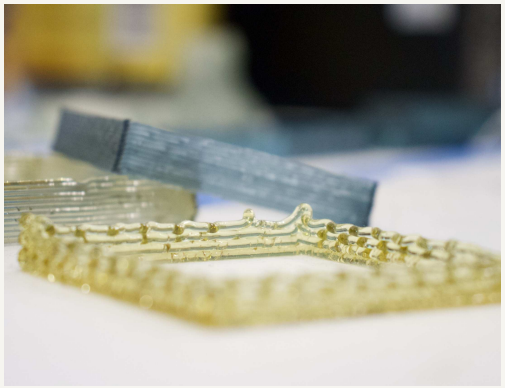
[2]

Flexible Geometry



[3]

Multi Colour

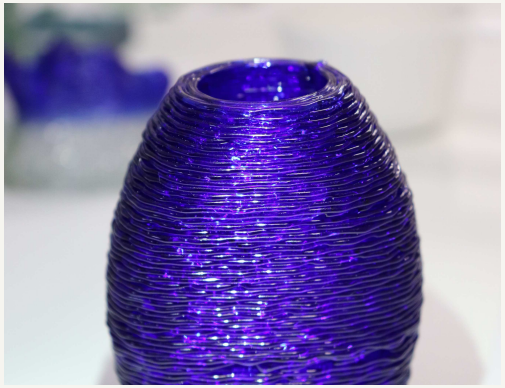


[4]

Experimental Printing

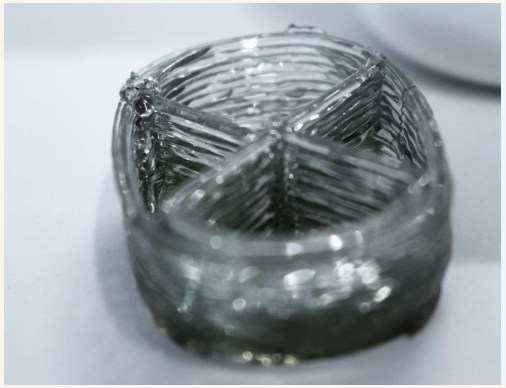
[5]

Single Wall



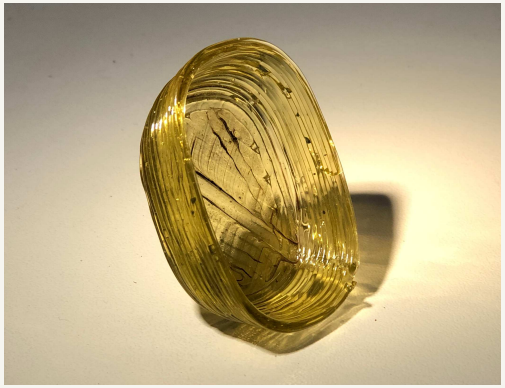
[6]

Double Wall



[7]

Infill Capabilities



[8]

Solid First Layer

Specifications

Device

Build Volume	170 x 200 x 300 mm (~10L) *customisable on order*
Nozzle Diameter	Available in 1.5, 2 or 3mm Diameter *(nozzles are interchangeable)* *customisable on order*
Nozzle Type	High Temperature Single Nozzle with Single Heated Block
Connectivity	USB to Computer Connection
Total Weight	~250kg
Size	~980 (w) × ~450 (d) × ~1800 (h)

Filament (Materials)

Filament Diameter	4 – 6mm (tailored to nozzle, extruder system) *customisable on order*
Nozzle Intake Diameter	Set to match that of the filament diameter
Material	Glass Rod, Bullseye Glass Rod, Recycled Glass Rod
Material (Other)	The printer is readily capable of printing other materials including a variety of soda-lime glasses, recycled glass waste, and custom glass prepared using a vitrigraph (inclusive of Bullseye Frits, sheet and powders)

Electrical & Software

AC Input	240 V – 25 Amp Plug (110 V Option)
Slicing	Cura Software (also compatible with generic slicing software)
Control Software	Repetier Host
Supported Input File Types	.stl and .obj

Temperatures

Maximum Nozzle Temperature	Customer Dependent (dependent on power supply and control system)
Maximum Chamber Temperature	700°C *(viewing windows used in Standard Printer are rated for 700°C)* Build chamber has a maximum operating temperature of 920°C

Printing

Minimum Layer Height	1mm *(with 1.5mm nozzle)*
Minimum Wall Thickness	Nozzle Diameter

Maple Glass Printing Ltd.

Contact

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