GIZMO 3D PRINTERS

2019 BROCHURE

FAIR PRICING

LESS DOWNTIME

FASTER 3D PRINTING

NO REPLACEMENT PARTS

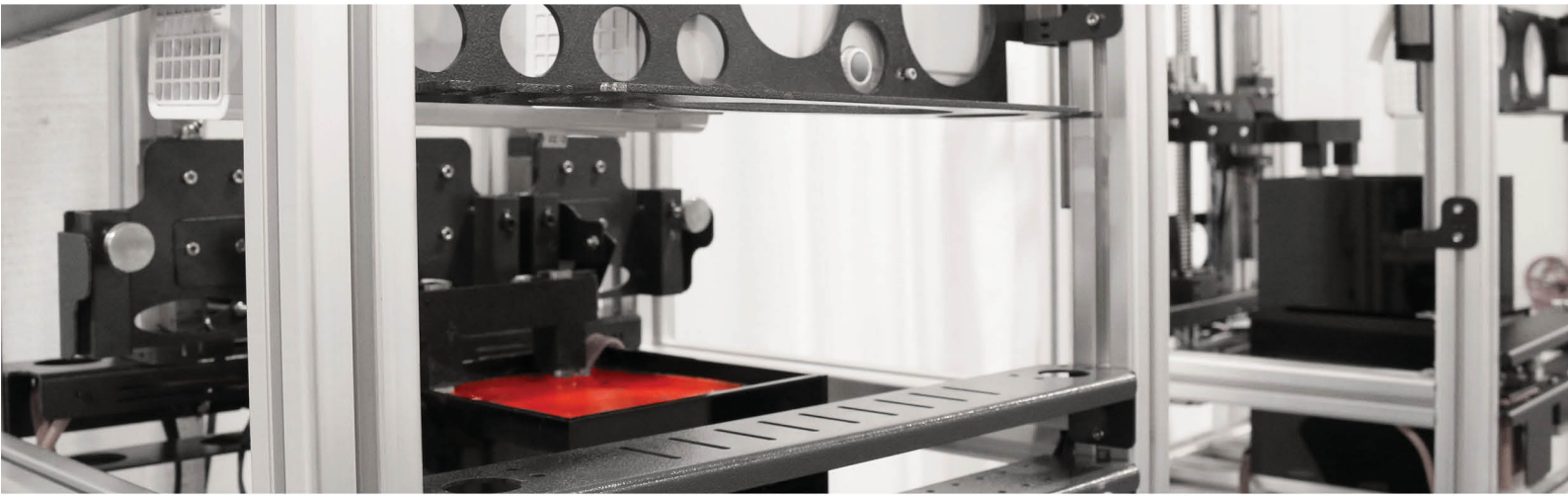
HIGH-RESOLUTION RESULTS

PRINT CONSISTENCY & LOW FAILURE RATES

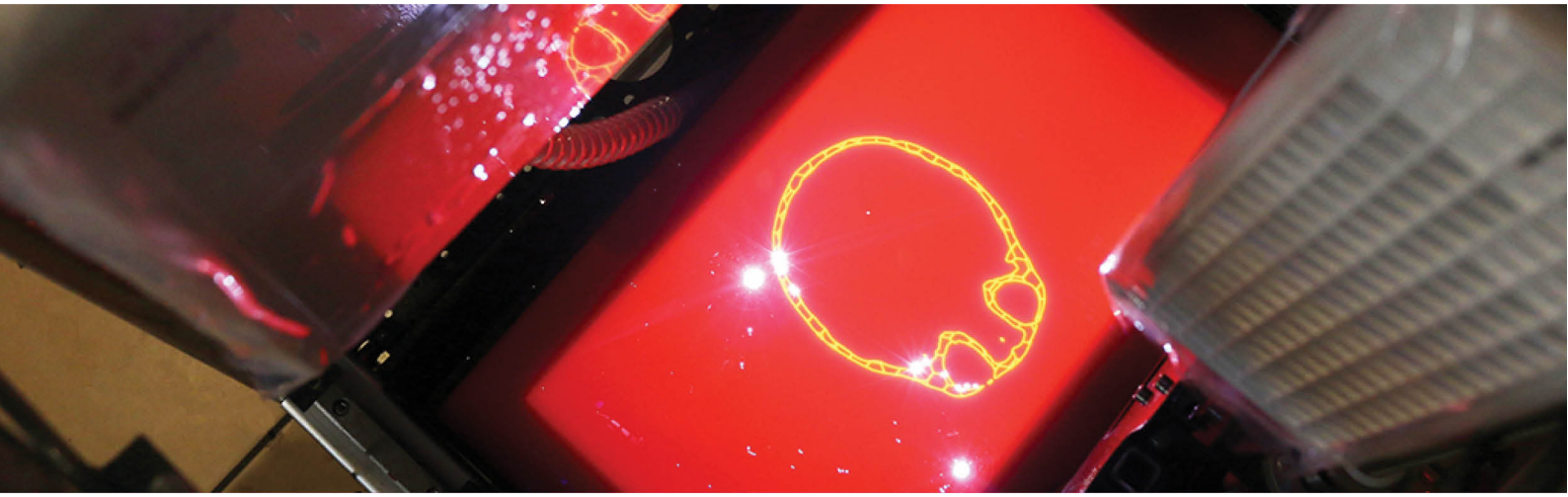
INTRODUCING THE WORLD'S FIRST SUPER SPEED TOP-DOWN SLA DLP 3D PRINTERS

NOW EVEN FASTER AND BETTER WITH NEW UV PROJECTORS

INDEX



FEATURES AND BENEFITS

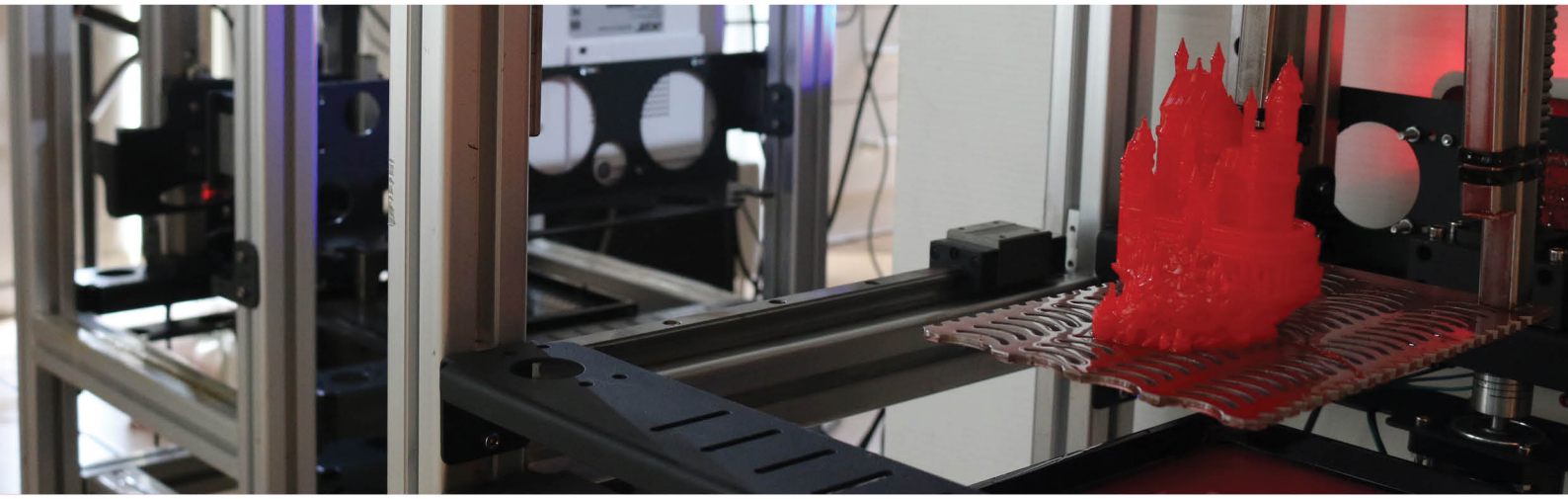


GUARANTEED TO SAVE YOU TIME AND MONEY

- Breakthrough printing speed - printing up to 33 times faster than the average resin 3D printer
- Amazing resolution - up to 0.07 micron Z calculated
- Larger build volumes - up to a maximum build area of 400mm x 225mm (15.7in x 8.8in) and build height of 800mm (31.49in)
- Low failure rate, consistent results and remote repeatability
- No replacement parts - no PDMS or Teflon layers, no sweeper)
- Top-down 3D printing technology - not only is the printing fast, the process is much faster too:
  - It's fast to remove a print
  - The finished print sits on top of the build plate = no suction issues
- Highly reliable, made from quality parts
- Expandable – made to grow with your budget
- Resin prices from only US $50 per litre
- Available from US $8125 + shipping

Print bigger volumes of high-resolution prints up to 33 times faster for cheaper using the industrial Gizmo 3D Printers.

HOW DOES IT WORK?



To get your print job underway, first import a .stl or .obj file to the Gizmetor software. Gizmetor then slices the 3D object into horizontal layers.

These layers are stored in a .gizmo file as 2D images, which are then opened in GiziPrint to print the object.

When you print, the layers are projected onto a bath of UV curable resin one by one (using HD DLP projectors), curing the resin and building the object layer by layer. As each layer gets printed, the build plate lowers incrementally from the top of the resin surface into the vat. The light from the projectors hardens these layers sequentially and then stacks them on top of each other to form the 3D object.

Gizmo 3D's unique technology suspends the object inside the liquid-filled vat as it forms, minimising the stress on the model during creation. Thus fewer supports are required, resulting in a more exceptional level of detail. At the end of the print comes the big reveal, as the build plate lifts the object slowly out of the resin.

The software offers a variety of settings that you can experiment with to achieve the level of quality print you need.

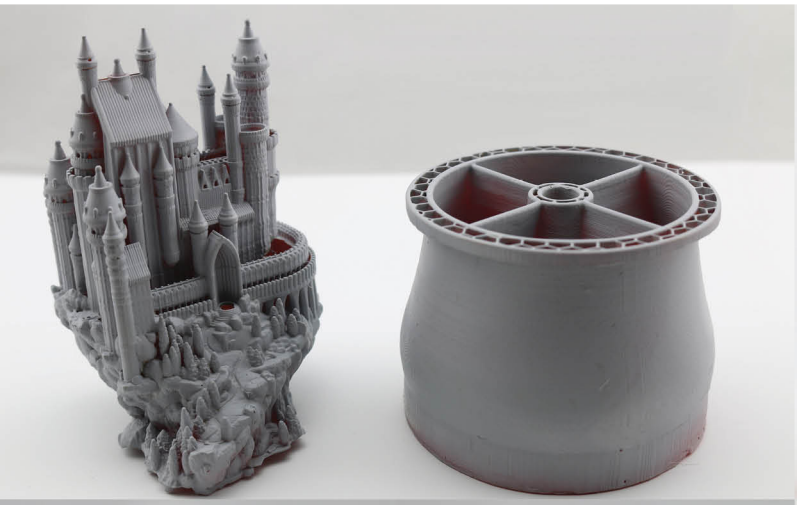
More about the Gizmo 3D Printers software Gizmetor

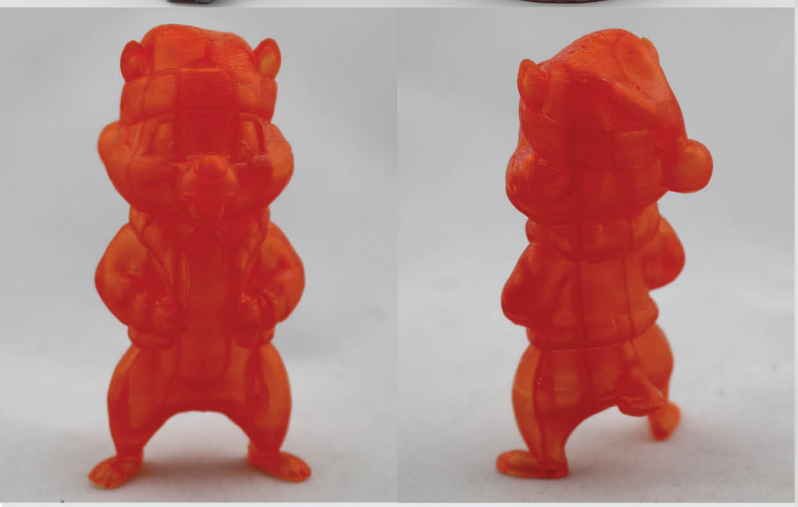
The software runs on Java 8 64bit. We recommend an up to date graphics card and driver as the software uses 3D extensively.

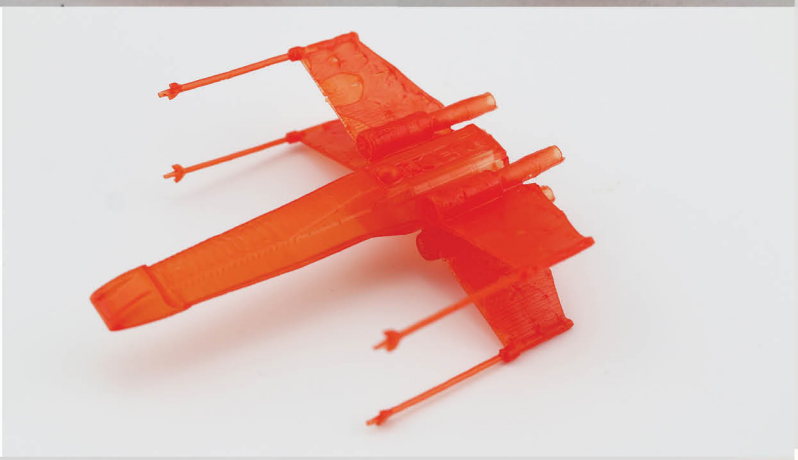
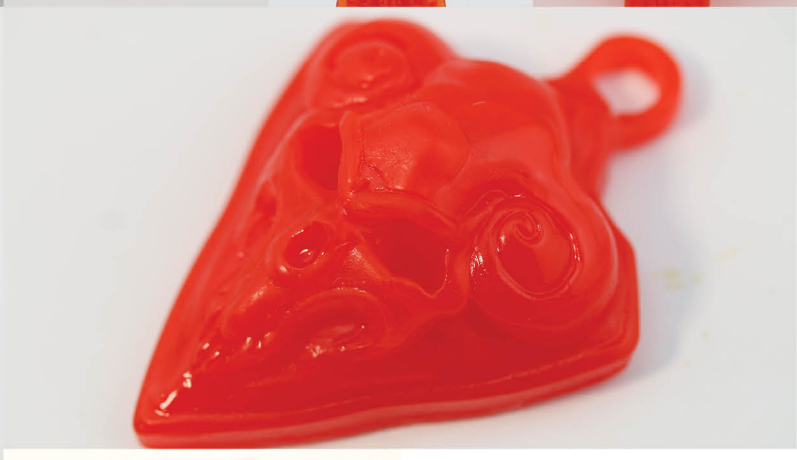
Gizmetor includes cutting edge features such as full layer manipulation, which is the ability to select a particular layer within a print job, and specifying how you would like it printed (i.e. hollow, solid, detailed or faster).

3D PRINT GALLERY

GIZMO 3D PRINTERS



PRODUCT INFORMATION AND PRICES

GIZMO 3D PRINTERS

The Gizmo 3D Printers are available in 3 different sizes:

GiziMate
(small)

Dimensions:
500mm x 430mm x 750mm
(19.68in x 16.93in x 29.52in)

from only US $8125

GiziPro
(medium)

Dimensions:
500mm x 430mm x 929.50mm
(19.68in x 16.93in x 36.59in)

from only US $9335

GiziMax
(large)

Dimensions:
500mm x 430mm x 1859mm
(19.68in x 16.93in x 73.18in)

from only US $9935

Find your ideal Gizmo 3D Printer and its estimated cost by following these four easy steps:

STEP 1: Choose your frame (page 7 - 8) +

STEP 2: Choose your UV projector (page 8) +

STEP 3: Choose your extras (page 9 - 10) +

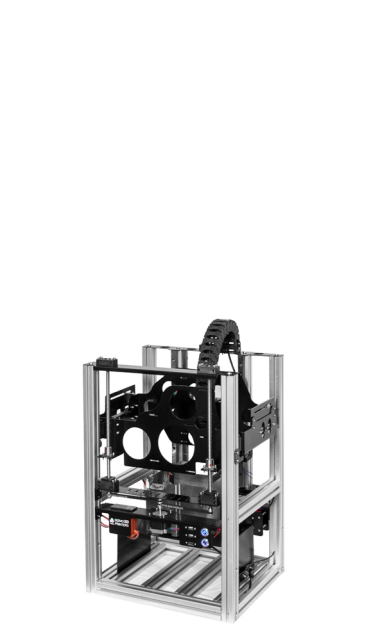
STEP 4: Add shipping cost (page 11)

Let's get started...

STEP 1:
CHOOSE YOUR FRAME

Please note: The following prices exclude the UV projector.
Refer to Appendix 1 (pages 15 – 23) for detailed specifications of each printer frame.

GiziMate Frame Options



GiziMate 130 **US $3625**

Build Height = 130mm (5.5in).
Build Area = 200mm x 113mm (7.87in x 4.44in).
No resin included. 7L resin needed to fill vat.

GiziMate 260 **US $4275**

Build Height = 260mm (10.23in).
Build Area = 200mm x 113mm (7.87in x 4.44in).
No resin included. 10L resin needed to fill vat.

GiziMate Xtreme **US $4325**

(Widest vat and biggest build volume in the range)

Build Height = 260mm (15.35in).
Build height depends on build area.
Build Area = 400mm x 225mm (15.7in x 8.8in).
No resin included. 33L resin needed to fill vat.

GiziPro Frame Options

GiziPro 130 **US $4835**

Build Height = 130mm (5.5in).
Build Area = 200mm x 113mm (7.87in x 4.44in).
No resin included. 7L resin needed to fill vat.

GiziPro 390 **US $5085**

Build Height = 390mm (15.35in).
Build Area = 200mm x 113mm (7.87in x 4.44in).
No resin included. 13L resin needed to fill vat.

GiziPro Xtreme **US $5135**

(Widest vat and biggest build volume in the range)

Build Height = 390mm (15.35in).
Build height depends on build area.
Build Area = 400mm x 225mm (15.7in x 8.8in).
No resin included. 50L resin needed to fill vat.

GiziMax Frame Options

GiziMax 130 **US $5435**

Build Height = 130mm (5.5in)
Build Area = 200mm x 113mm (7.87in x 4.44in).
No resin included. 7L resin needed to fill the vat.

GiziMax 430 **US $5785**

Build Height = 430mm (31.49in).
Build Area = 200mm x 113mm (7.87in x 4.44in).
No resin included. 20L resin needed to fill the vat.

GiziMax Ultimate **US $6035**

(Widest vat and biggest build volume in the range)

Build Height = 800mm (31.49in).
Build height depends on build area.
Build Area = 400mm x 225mm (15.7in x 8.8in).
No resin included. 100L resin needed to fill the vat.

STEP 2: CHOOSE YOUR UV PROJECTOR

UV Projector Options

Standard Intensity 1080P Small Area UV Projector (405nm) **US $4500**

This projector suits smaller, high-resolution prints best. Suited for printing parts that fit within a minimum projection size of 96mm x 54mm (3.77in x 2.12in) to a maximum size of 160mm x 90mm (6.29in x 3.54in).

High Intensity 1080P Large Area UV Projector (405nm) **US $5000**

Great for printing large models faster and better. Suited for printed parts that fit within a minimum projection size of 192mm x 108mm (7.55in x 4.25in) to a maximum size of 400mm x 225mm (15.74in x 8.85in).

These new UV projectors print fast while delivering a high level of consistency and accuracy in detailed prints over the entire projection area. Refer to Appendix 2 (page 24) for detailed UV projector specifications.

GIZMO 3D PRINTERS

STEP 3:
CHOOSE YOUR EXTRAS

Various vat and build plate sizes

The Gizmo 3D printer frames come with vats and build plates, but you can purchase different sized vats and build plates additionally to suit your unique project needs.

The following metal vat and build plate sizes are available to order:

VATS	*BUILD PLATES*
1. 85mm x 48mm x 50mm (Ring vat) US $180*	1. 85mm x 48mm x 50mm US $120*
2. 200mm x 113mm x 130mm US $200	2. 200mm x 113mm x 130mm US $300
3. 200mm x 113mm x 260mm US $300	3. 200mm x 113mm x 260mm US $300
4. 200mm x 113mm x 390mm US $350	4. 200mm x 113mm x 390mm US $300
5. 200mm x 113mm x 430mm US $400	5. 200mm x 113mm x 430mm US $300
6. 400mm x 225mm x 130mm US $300	6. 400mm x 225mm x 130mm US $400
7. 400mm x 225mm x 260mm US $350	7. 400mm x 225mm x 260mm US $400
8. 400mm x 225mm x 390mm US $400	8. 400mm x 225mm x 390mm US $400
9. 400mm x 225mm x 430mm US $450	9. 400mm x 225mm x 430mm US $400

* We highly recommend ordering it for testing resins or printing small items.

Support

We offer professional and confidential one-on-one online support for **USD 100** per hour with one of our technical advisers.

Depending on availability, we can also offer in-person training and installation at your facility anywhere in the world. **POR**

Industrial Service Plan

- Priority service with expedited response times
- Rapid delivery of replacement parts
- We offer 100% one-year unlimited warranty on all parts and accessories, excluding the resin and projector lamp

All this for **20%** of the price of the printer you purchase.

Delivery Times

You can expect your printer/s to arrive within 1 to 2 months from the time you place an order, depending on what we have in stock.

STEP 4:
ADD THE SHIPPING COST

GIZMO 3D PRINTERS

The shipping cost varies between countries.

COUNTRY	ESTIMATED SHIPPING COST OF PRINTERS			
	GiziMate	GiziPro	GiziMax	GiziMax Ultimate
Australia	US $350	US $550	US $1000	US $1200
New Zealand	US $435	US $480	US $680	US $880
North America	US $750	US $880	US $1360	US $1560
South America	US $850	US $1000	US $1570	US $1770
Asia	US $650	US $750	US $1140	US $1340
Africa	US $850	US $1000	US $1570	US $1770
Europe	US $650	US $750	US $1140	US $1340

Note: The pricing on this page may not be the exact pricing for your country and should be regarded as an estimated price guide only.

Have you calculated an estimated total cost for your ideal Gizmo 3D Printer?
Email info@gizmo3Dprinters.com.au for more information or to place an order.

MATERIALS

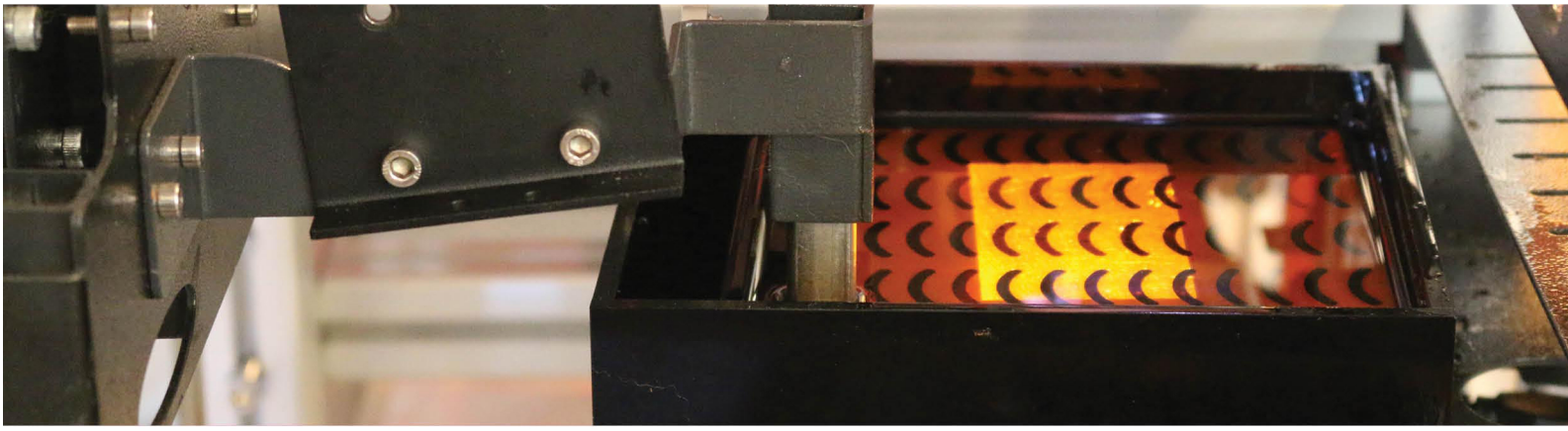
DIFFERENT RESINS TO SUIT YOUR PROJECT AND BUDGET

The Gizmo 3D Printers are resin-based DLP SLA 3D Printers. Any resins made for SLA DLP 3D Printers should work but we can only guarantee the ones we have personally tested. We've tested and recommend:

Fun To Do resin: Included in the prices of the machines is enough Fun To Do resin for you to start printing right away. It's an affordable resin that is available in many countries and suited to a wide range of uses. It cures wonderfully fast - when printing with the Fun To Do Industrial Blend resin, for example, using the standard intensity UV projector at a projection area of 96mm x 54mm and a layer height of 100 microns, the curing time is approximately 800 milliseconds per layer when printing at standard speed. Visit funtodo.net for more information.

Pro3dure resin: Good for medical related 3D printing such as dental items and hearing aids for example. Some of the resins from this brand cure extremely fast while others are very thick and probably not suitable for continuous printing. The resin doesn't require any pigment like many other resins, therefore no mixing required. Visit pro3dure.com for more information.

MATERIALS



Vitang resin: Ideal for castable jewellery printing, this quality resin produces extremely high-resolution results. The resin doesn't require any pigment as many other resins do which also means no mixing required. It is a thick resin and prints slower, therefore not suitable for continuous printing. Visit vitangtechnology.com for more information.

3Dresyns: These are high-performance resins, both in terms of high mechanical performance and fast speed. They have an impressive variety of resins that vary in strength, flexibility, hardness and more. These resins are perfectly suited to UV projectors. Visit 3Dresyns.com for more information.

Tethon 3D resin: The Porcelite Ceramic resin produces porcelain prints. It is slow curing. It might be required to mix the resin during printing. It is a thick resin and not suited for continuous printing. Visit tethon3D.com for more information.

DruckWege resin: DruckWege resin Typ D is durable, easy to paint and cures quick. It achieves a high degree of details and sharp edges. Visit druckwege.de for more information.

Spot-A Materials: We've tested the Spot-E elastic resin, it cures wonderfully fast and is relatively affordable. Produces high-resolution results and we also recommend it for continuous printing of flexible objects. Visit spotamaterials.com for more information.

COMPANY HISTORY

Gizmo 3D Printers is a Brisbane-based startup that long-time software programmer and inventor Kobus du Toit started with Michelle, a marketing generalist and his wife.

The state-of-the-art technology wowed many attendees at CES 2016 in Las Vegas and impressed reporters at the leading tech show, including Fabbaloo, MTS and Mashable, which noted the super speed of the machines.

On April 1st, 2016 the Gizmo 3D Printers Indiegogo campaign ended at an impressive 139% funded. Other achievements thus far include being listed as finalists for 3 of the 2016 Endeavour Awards held by Manufacturers' Monthly, being shortlisted for the 2016 Lord Mayor's Budding Entrepreneurs Grant Program and being among the 5 startups selected from hundreds of applications for the 2016 Sponsored Entrepreneurs Program hosted by River City Labs and sponsored by CUA. Gizmo 3D Printers featured on TV show Australia Beyond 2020 on Monday 14 November 2016, episode 1.

Throughout 2017, the company has moved from its humble beginnings in a residential property to its own factory in Australia, developed multiple upgrades for the machines and saw an increase in sales globally. In Gizmo 3D team won their first award as part of the 2018 QUT bluebox Robotics Accelerator and broke their own ground-breaking 3D printing speed record with new product developments. 2019 is looking promising for Gizmo 3D Printers and their customers with exciting announcements in the pipeline.

CONTACT DETAILS

Email: info@Gizmo3DPrinters.com.au
Website: www.Gizmo3DPrinters.com.au

Social media:
Facebook: facebook.com/Gizmo3Dprinters
Twitter: @Gizmo3Dprinters or @Gizmo3Dprinting
e+: google.com/+Gizmo3Dprinters
Youtube: youtube.com/Gizmo3Dprinters
Instagram: instagram.com/Gizmo3Dprinters

APPENDIX 1:
PRINTER SPECIFICATIONS

GIZMO 3D PRINTERS

GiziMate 130

Max build envelope size (LxWxH)	200mm x 113mm x 130mm
Number of DLP® heads	1
Layer thickness *	10 - 300
Build platform type	Stainless steel 304
Vat material	Stainless steel 304
Printer size (LxWxH)	505mm x 430mm x 716mm
Heater	Operating temperature up to 150 C
Gearbox	10:1
Construction material	Extruded aluminium and mild steel
Weight	30kg
Power requirements	110V/220 - 240 VAC, 5 A, 50/60 Hz
Software compatibility	Windows 10
PC requirement	External PC required. At least i3 with 4GB memory to print. Recommended i7 with 16GB memory to slice large models
Replacement parts	None
Maintenance	Spray ball screws with oil once a month
Data handling	STL or OBJ
Automation	Automatic projector movement
Z axis ballscrew	20mm, 5mm pitch
Z axis stepper	Nema 23 with 10:1 gearbox
Auto projector movement	2 x 12mm ballscrews + Nema 23 stepper
Stepper drivers	2 x DRV8825
Build modes	Standard speed, hybrid continuous, continuous

GiziMate 260

Max build envelope size (LxWxH)	200mm x 113mm x 260mm
Number of DLP® heads	1
Layer thickness *	10 - 300
Build platform type	Stainless steel 304
Vat material	Stainless steel 304
Printer size (LxWxH)	505mm x 430mm x 716mm
Heater	Operating temperature up to 150 C
Gearbox	10:1
Construction material	Extruded aluminium and mild steel
Weight	30kg
Power requirements	110V/220 - 240 VAC, 5 A, 50/60 Hz
Software compatibility	Windows 10
PC requirement	External PC required. At least i3 with 4GB memory to print. Recommended i7 with 16GB memory to slice large models
Replacement parts	None
Maintenance	Spray ball screws with oil once a month
Data handling	STL or OBJ
Automation	Automatic projector movement
Z axis ballscrew	20mm, 5mm pitch
Auto projector movement	2 x 12mm ballscrews + Nema 23 stepper
Stepper drivers	2 x DRV8825
Build modes	Standard speed, hybrid continuous, continuous

GiziMate Xtreme

Max build envelope size (LxWxH)	400mm x 225mm x 260mm
Number of DLP® heads	1
Layer thickness *	10 - 300
Build platform type	Stainless steel 304
Vat material	Stainless steel 304
Printer size (LxWxH)	505mm x 430mm x 716mm
Heater	Operating temperature up to 150 C
Gearbox	10:1
Construction material	Extruded aluminium and mild steel
Weight	30kg
Power requirements	110V/220 - 240 VAC, 5 A, 50/60 Hz
Software compatibility	Windows 10
PC requirement	External PC required. At least i3 with 4GB memory to print. Recommended i7 with 16GB memory to slice large models
Replacement parts	None
Maintenance	Spray ballscrews with oil once a month
Data handling	STL or OBJ
Automation	Automatic projector movement
Z axis ballscrew	20mm, 5mm pitch
Auto projector movement	2 x 12mm ballscrews + Nema 23 stepper
Stepper drivers	2 x DRV8825
Build modes	Standard speed, hybrid continuous, continuous

PRINTER SPECIFICATIONS

GiziPro 130

Max build envelope size (LxWxH)	200mm x 113mm x 130mm
Number of DLP® heads	1
Layer thickness *	10 - 300
Build platform type	Stainless steel 304
Vat material	Stainless steel 304
Printer size (LxWxH)	505mm x 430mm x 996mm
Heater	Operating temperature up to 150 C
Gearbox	10:1
Construction material	Extruded aluminium and mild steel
Weight (empty)	40kg
Power requirements	110V/220 - 240 VAC, 5 A, 50/60 Hz
Software compatibility	Windows 10
PC requirement	External PC required. At least i3 with 4GB memory to print. Recommended i7 with 16GB memory to slice large models
Replacement parts	None
Maintenance	Spray ballscrews with oil once a month
Data handling	STL or OBJ
Automation	Automatic projector movement
Z axis ballscrew	20mm, 5mm pitch
Auto projector movement	2 x 12mm ballscrews + Nema 23 stepper
Stepper drivers	2 x DRV8825
Build modes	Standard speed, hybrid continuous, continuous

GiziPro 390

Max build envelope size (LxWxH)	200mm x 113mm x 390mm
Number of DLP® heads	1
Layer thickness *	10 - 300
Build platform type	Stainless steel 304
Vat material	Stainless steel 304
Printer size (LxWxH)	505mm x 430mm x 912mm
Heater	Operating temperature up to 150 C
Gearbox	10:1
Construction material	Extruded aluminium and mild steel
Weight (empty)	40kg
Power requirements	110V/220 - 240 VAC, 5 A, 50/60 Hz
Software compatibility	Windows 10
PC requirement	External PC required. At least i3 with 4GB memory to print. Recommended i7 with 16GB memory to slice large models
Replacement parts	None
Maintenance	Spray ballscrews with oil once a month
Data handling	STL or OBJ
Automation	Automatic projector movement
Z axis ballscrew	20mm, 5mm pitch
Auto projector movement	2 x 12mm ballscrews + Nema 23 stepper
Stepper drivers	2 x DRV8825
Build modes	Standard speed, hybrid continuous, continuous

GiziPro Xtreme

Max build envelope size (LxWxH)	400mm x 225mm x 390mm
Number of DLP® heads	1
Layer thickness *	10 - 300
Build platform type	Stainless steel 304
Vat material	Stainless steel 304
Printer size (LxWxH)	505mm x 430mm x 912mm
Heater	Operating temperature up to 150 C
Gearbox	10:1
Construction material	Extruded aluminium and mild steel
Weight (empty)	40kg
Power requirements	110V/220 - 240 VAC, 5 A, 50/60 Hz
Software compatibility	Windows 10
PC requirement	External PC required. At least i3 with 4GB memory to print. Recommended i7 with 16GB memory to slice large models
Replacement parts	None
Maintenance	Spray ballscrews with oil once a month
Data handling	STL or OBJ
Automation	Automatic projector movement
Z axis ballscrew	20mm, 5mm pitch
Auto projector movement	2 x 12mm ballscrews + Nema 23 stepper
Stepper drivers	2 x DRV8825
Build modes	Standard speed, hybrid continuous, continuous

PRINTER SPECIFICATIONS

GiziMax 130

Max build envelope size (LxWxH)	200mm x 113mm x 130mm
Number of DLP® heads	1
Layer thickness *	10 - 300
Build platform type	Stainless steel 304
Vat material	Stainless steel 304
Printer size (LxWxH)	505mm x 430mm x 1816mm
Heater	Operating temperature up to 150 C
Gearbox	10:1
Construction material	Extruded aluminium and mild steel
Weight (empty)	50kg
Power requirements	110V/220 - 240 VAC, 5 A, 50/60 Hz
Software compatibility	Windows 10
PC requirement	External PC required. At least i3 with 4GB memory to print. Recommended i7 with 16GB memory to slice large models
Replacement parts	None
Maintenance	Spray ballscrews with oil once a month
Data handling	STL or OBJ
Automation	Automatic projector movement
Z axis ballscrew	20mm, 5mm pitch
Auto projector movement	2 x 12mm ballscrews + Nema 23 stepper
Stepper drivers	2 x DRV8825
Build modes	Standard speed, hybrid continuous, continuous

PRINTER SPECIFICATIONS

GiziMax 430

Max build envelope size (LxWxH)	200mm x 113mm x 430mm
Number of DLP® heads	1
Layer thickness *	10 - 300
Build platform type	Stainless steel 304
Vat material	Stainless steel 304
Printer size (LxWxH)	505mm x 430mm x 1816mm
Heater	Operating temperature up to 150 C
Gearbox	10:1
Construction material	Extruded aluminium and mild steel
Weight (empty)	50kg
Power requirements	110V/220 - 240 VAC, 5 A, 50/60 Hz
Software compatibility	Windows 10
PC requirement	External PC required. At least i3 with 4GB memory to print. Recommended i7 with 16GB memory to slice large models
Replacement parts	None
Maintenance	Spray ballscrews with oil once a month
Data handling	STL or OBJ
Automation	Automatic projector movement
Z axis ballscrew	20mm, 5mm pitch
Auto projector movement	2 x 12mm ballscrews + Nema 23 stepper
Stepper drivers	2 x DRV8825
Build modes	Standard speed, hybrid continuous, continuous

PRINTER SPECIFICATIONS

GiziMax Ultimate

Max build envelope size (LxWxH)	400mm x 225mm x 800mm
Number of DLP® heads	1
Layer thickness *	10 - 300
Build platform type	Stainless steel 304
Vat material	Stainless steel 304
Printer size (LxWxH)	505mm x 430mm x 1816mm
Heater	Operating temperature up to 150 C
Gearbox	10:1
Construction material	Extruded aluminium and mild steel
Weight (empty)	50kg
Power requirements	110V/220 - 240 VAC, 5 A, 50/60 Hz
Software compatibility	Windows 10
PC requirement	External PC required. At least i3 with 4GB memory to print. Recommended i7 with 16GB memory to slice large models
Replacement parts	None
Maintenance	Spray ballscrews with oil once a month
Data handling	STL or OBJ
Automation	Automatic projector movement
Z axis ballscrew	20mm, 5mm pitch
Auto projector movement	2 x 12mm ballscrews + Nema 23 stepper
Stepper drivers	2 x DRV8825
Build modes	Standard speed, hybrid continuous, continuous

APPENDIX 2: UV PROJECTOR SPECIFICATIONS

Standard intensity UV projector

Minimum projection area	96mm x 54mm
Maximum projection area	160mm x 90mm
DLP® resolution	1920 x 1080 pixels
Native pixel size (X, Y)	7.6 micron
Weight	5kg
Power requirements	110V/220 - 240 VAC, 1 A, 50/60 Hz
Power consumption	30 Watt

High intensity UV projector

Minimum projection area	160mm x 90mm
Maximum projection area	600mm x 338mm
DLP® resolution	1920 x 1080 pixels
Native pixel size (X, Y)	7.6 micron
Weight	5kg
Power requirements	110V/220 - 240 VAC, 1 A, 50/60 Hz
Power consumption	45 Watt