ASIGA®

3D Printers for
Jewelry Manufacturing
Repeatable precision for quality assurance and productivity.

www.asiga.com

ASIGA®
Jewelry Manufacturing Solutions

Being the creators of the precision desktop 3D printer market, we continue to offer precision, surface finish and product innovations designed to outperform any other.

Smart Positioning Technology (SPS)

The Smart Positioning System (SPS) is a series of positioning encoders that read the exact position of the build platform during each layer approach. This ensures the next layer is only exposed/formed once the build platform target position has been reached.

1.	2.	3.	4.
Approach	Encoder's Active	Target reached	Separation
Platform moves to target position	Printer waits until target is reached	Image exposed	Layer separated from film

Our Process Monitoring Technologies explained. These technologies ensure every layer is formed accurately resulting in a reliable output for quality assurance and productivity.
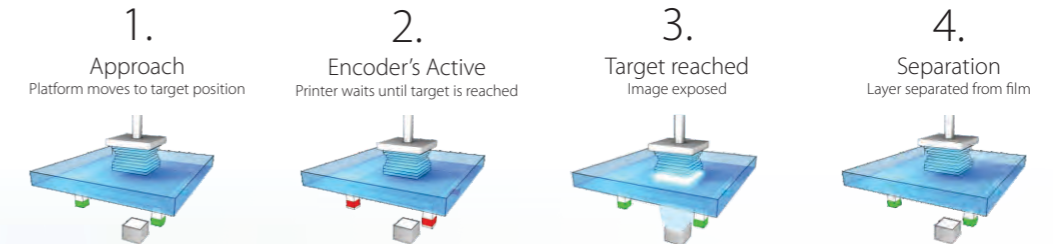
Internal radiometer

An internal radiometer actively monitors LED intensity during each build ensuring the correct light exposure is delivered for every layer.

High power 405nm LED

To print water-clear materials and many of the industry leading materials, a UV 385nm LED is required.

Small pixel and accurate pixel placement

Pixel size and pixel placement are important for reproducing digital data accurately to achieve a precise fit.
For dentistry, small pixel sizes are critical and we recommend between 47µm - 80µm depending on application.

Precise material curing

An Open Material System allows for any suitable material to be printed. Material curing parameters for each material are generated by Asiga ensuring materials are cured accurately for repeatable results.

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Our end user features.
3D printing made intuitive and simple.

Single Point Calibration
Calibrate in under 60 seconds

Auto Power-Off
Energy saving mode and auto-recovery

Environmental Control
Onboard heater for reliable performance

Fast Material Change-over
Change materials in less than 30 seconds with no calibration required

High Power LED 405nm
For long term reliability, accuracy and for processing a wide range of materials

Open Material System
Use any Asiga material and any suitable 3rd party material

Touch Screen Display
For greater user convenience

Remote access and control
Streamlined integration into your digital workflow

Wifi Enabled
connect wirelessly

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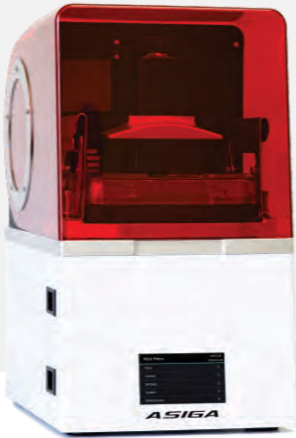Jewelry Manufacturing Solutions

Asiga jewelry 3D printers.

MAX
Series

PRO
Series

**MAX
LCD**

**MAX
Mini**

**MAX
X**

MAX

**PRO
4K**

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MAX
LCD

Optimized LCD 3D printing technology.

The MAX LCD takes advantage of Asiga's proven SPS technology and repeatable print precision to offer an affordable production ready 3D printer. The MAX LCD provides an efficient and intuitive user experience via our fully integrated Composer software and simple touch screen display.

3hr
55 rings

Printer Performance

Print capacity	up to 55 rings (size dependant)
Print speed - 25µm layers	9 hrs (height of tallest piece 30mm)
Print cost (USD)	$0.50 - $2 per piece (weight/material dependant)

Printer Specification

Build size X, Y, Z	121 x 68 x 76mm* (4.76 x 2.7 x 3 inches)
Pixel size X,Y	47µm
Z resolution	Variable in 1µm increments
Light source	405nm LED
Material system	Open material system
File inputs	STL, SLC, STM
Software	Asiga Composer (included)
Network compatibility	Wifi, Wireless direct, Ethernet
Industry sectors	Jewelry manufacturing
System size	260 x 380 x 370mm (10.2 x 15 x 14.5 inches)
System weight	16.5Kg (packaged 19Kg)
Packaged size/weight	410 x 500 x 480mm (18.1 x 22 x 19.7 inches)
Power	100-240VAC, 50/60Hz, 2.0A MAX

* build envelope size may vary

PROUD MEMBER OF
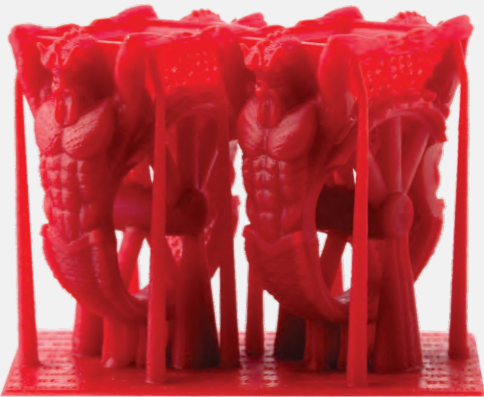**MJSA**

ASIGA®
Jewelry Manufacturing Solutions

MAX Mini

Accurate, reliable, affordable.

MAXMini delivers Asiga's latest SPS technology in an economical format ideal for jewelry studios. Perfect for rapid production of jewelry casting patterns, rubber mold masters and visualization models.

40min
11 rings

Printer Performance

Print capacity	up to 11 rings (size dependant)
Print speed - 25µm layers	3 hrs (height of tallest piece 30mm)
Print cost (USD)	$0.50 - $2 per piece (weight/material dependant)

Printer Specification

Build size X, Y, Z	51.2 x 32 x 76mm* (2 x 1.26 x 3 inches)
Pixel size X,Y	39µm
Z resolution	Variable in 1µm increments
Light source	High-power 405nm LED
Material system	Open material system
File inputs	STL, SLC, STM
Software	Asiga Composer (included)
Network compatibility	Wifi, Wireless direct, Ethernet
Industry sectors	Jewelry manufacturing
System size	260 x 380 x 370mm (10.2 x 15 x 14.5 inches)
System weight	16.5Kg (packaged 19Kg)
Packaged size/weight	410 x 500 x 480mm (18.1 x 22 x 19.7 inches)
Power	100-240VAC, 50/60Hz, 2.0A MAX

* build envelope size may vary

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Jewelry Manufacturing Solutions

MAX X

Flexible precision.

Flexible precision. The MAX X is Asiga's highest resolution jewelry production system with a re-configurable resolution of 27, 35 or 43 microns. This allows the system to be adapted to both extreme resolution and high productivity applications. Built on the extraordinary precision of Asiga's SPS Technology, the MAX X delivers performance, reliability and flexibility for jewelers and casting houses.

40min
26 rings
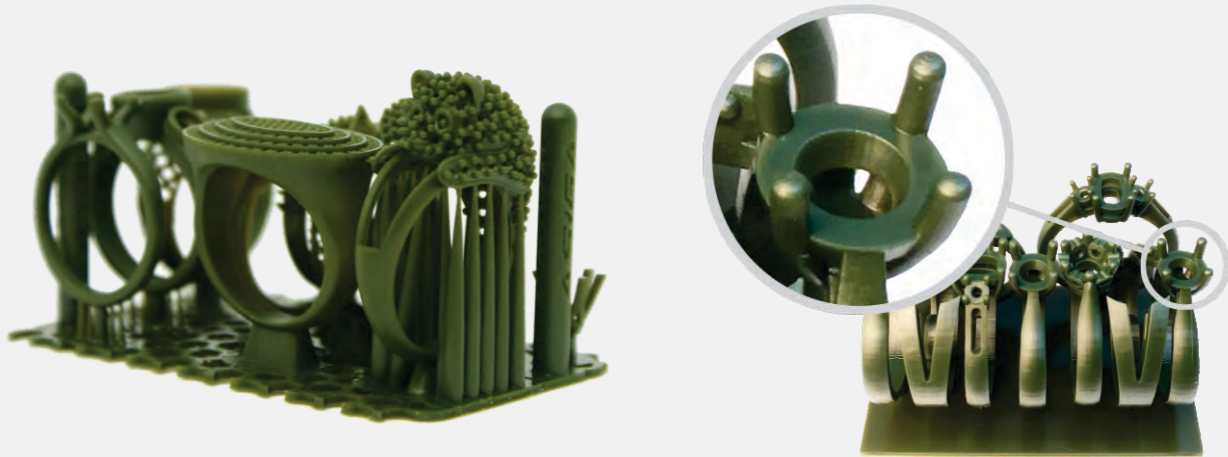
Printer Performance

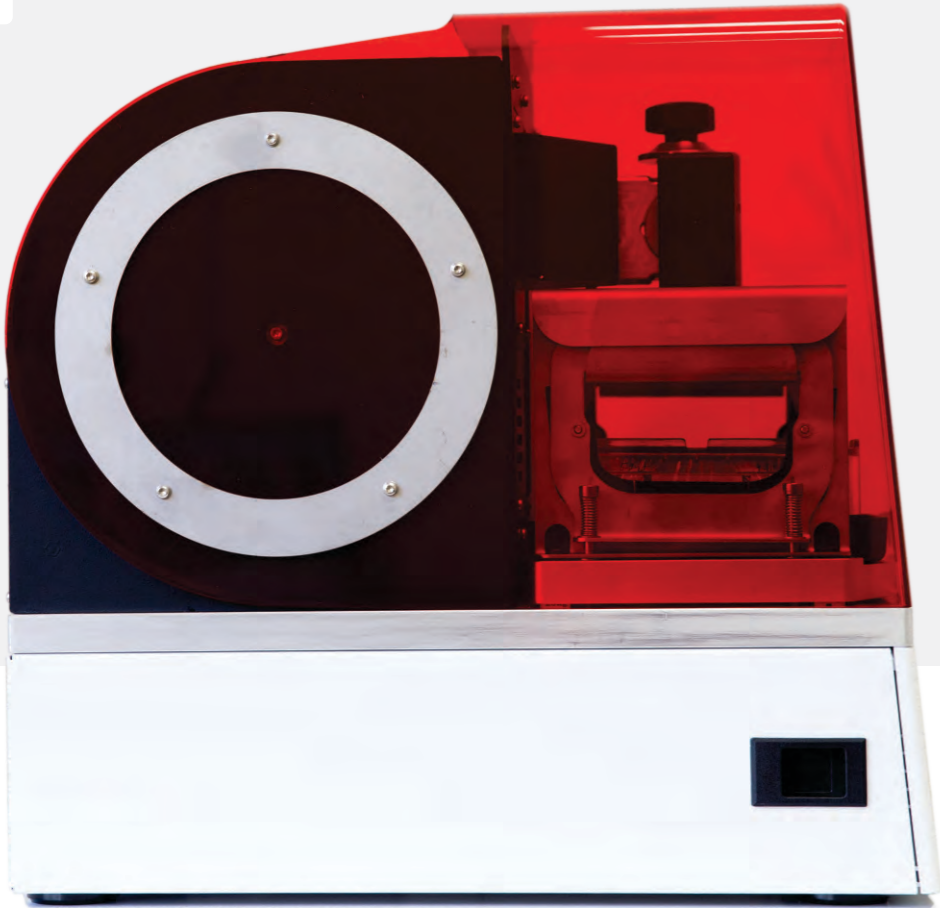|	
Print capacity	up to 26 rings (ring size dependant)
Print speed - 25µm layers	3 hrs (height of tallest piece 30mm)
Print cost (USD)	$0.50 - $2 per piece (weight/material dependant)
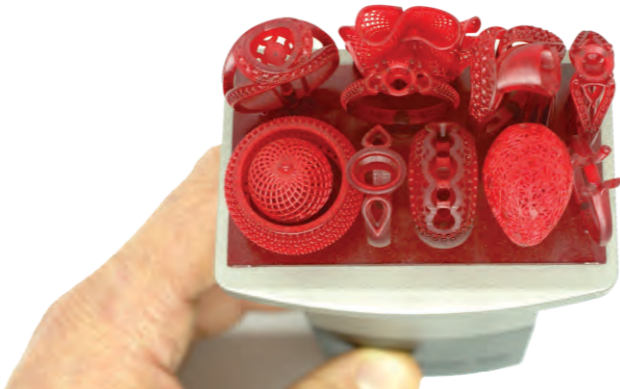
Printer Specification

MAX X27 Build size X, Y, Z	51.8 x 29.1 x 76mm* (2 x 1.14 x 3 inches)
MAX X35 Build size X, Y, Z	67.2 x 38 x 76mm* (2.6 x 1.5 x 3 inches)
MAX X43 Build size X, Y, Z	82.5 x 46.4 x 76mm* (3.24 x 1.82 x 3 inches)
Z resolution	Variable in 1µm increments
Light source	High-power 405nm LED
Material system	Open material system
File inputs	STL, SLC, STM
Software	Asiga Composer (included)
Network compatibility	Wifi, Wireless direct, Ethernet
Industry sectors	Jewelry manufacturing
System size	260 x 380 x 505mm (10.2 x 15 x 19.8 inches)
System weight	19kg (packaged 21.5Kg)
Packaged size/weight	940 x 530 x 500mm (37 x 20.8 x 19.7 inches)
Power	100-240VAC, 50/60Hz, 2.0A MAX

* build envelope size may vary

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MAX

Volume production on your desktop.

The MAX offers Asiga's largest build envelope with the delicate precision required for the production of beautiful jewelry patterns. The larger print volume allows jewelers, artists and casting houses to produce sculptures, bangles, and large quantities of casting patterns in a single print.

40min
54 rings

Printer Performance

Print capacity	54+ rings (size dependant)
Print speed - 25μm layers	3 hrs (height of tallest piece 30mm)
Print cost (USD)	$0.50 - $2 per piece (weight/material dependant)

Printer Specification

Build size X, Y, Z	119 x 67 x 76mm* (4.68 x 2.63 x 3 inches)
Pixel size X,Y	62μm
Z resolution	Variable in 1μm increments
Light source	High-power 405nm LED
Material system	Open material system
File inputs	STL, SLC, STM
Software	Asiga Composer (included)
Network compatibility	Wifi, Wireless direct, Ethernet
Industry sectors	Jewelry manufacturing
System size	260 x 380 x 370mm (10.2 x 15 x 14.5 inches)
System weight	16.5Kg (packaged 19Kg)
Packaged size/weight	410 x 500 x 480mm (18.1 x 22 x 19.7 inches)
Power	100-240VAC, 50/60Hz, 2.0A MAX

* build envelope size may vary

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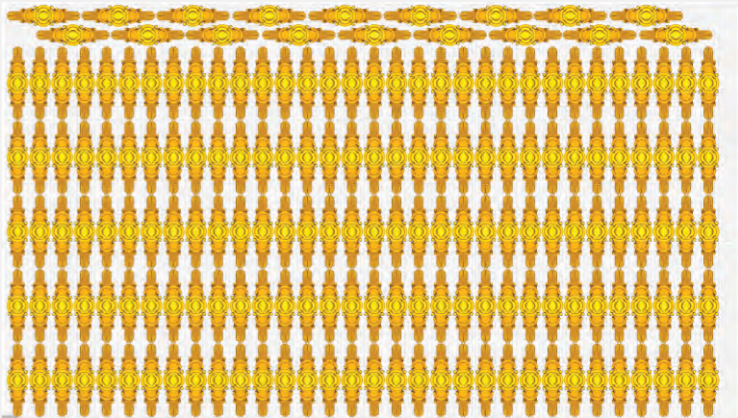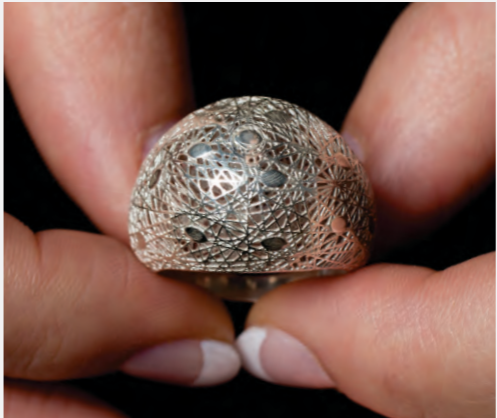MJSA

ASIGA®
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PRO 4K

The ultimate in volume production.

The PRO 4K utilises the latest DLP imaging technology to achieve the largest print envelope in our range, with precision, reliability and speed for the most demanding production applications.

1hr
175 rings

Printer Performance

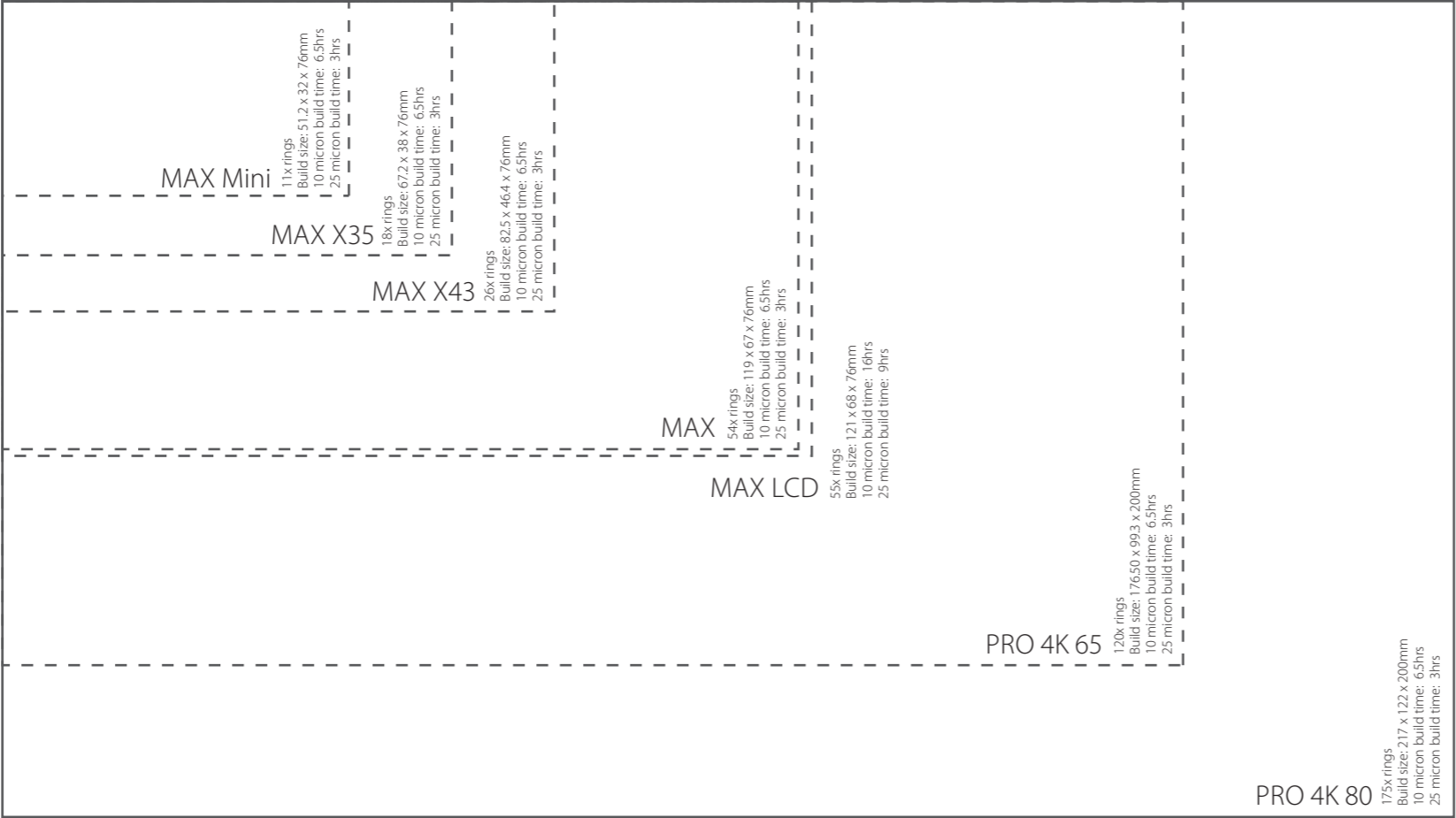|	
Print capacity	178 rings (size dependant)
Print speed - 25μm layers	3 hrs (height of tallest piece 30mm)
Print cost (USD)	$0.50 - $2 per piece (weight/material dependant)

Printer Specification

PRO 4K65 Build size X, Y, Z	176.5 x 99 x 200mm* (6.94 x 3.9 x 7.87 inches)
PRO 4K80 Build size X, Y, Z	217 x 122 x 200mm* (8.54 x 4.8 x 7.87 inches)
Z resolution	Variable in 1μm increments
Light source	High-power 405nm LED
Material system	Open material system
File inputs	STL, SLC, STM
Software	Asiga Composer (included)
Network compatibility	Wifi, Wireless direct, Ethernet
Industry sectors	Jewelry manufacturing
System size	465 x 420 x 1370mm (18.3 x 16.5 x 53.9 inches)
System weight	75kg (packaged 100Kg)
Packaged size/weight	975 x 735 x 1590mm (38.3 x 28.9 x 62.6 inches)
Power	100-240VAC, 50/60Hz, 500 Watts
* build envelope size may vary	(100V – 5Amp Max. 240V – 2.1Amp)

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Which Asiga 3D printer is for you?

Find your ideal 3D printer. Select a model based on print volume or print resolution, there's an Asiga 3D printer for every manufacturer small or large.

MAX Mini
11 x rings
Build size: 51.2 x 32 x 76mm
10 micron build time: 6.5hrs
25 micron build time: 3hrs

MAX X35
18x rings
Build size: 67.2 x 38 x 76mm
10 micron build time: 6.5hrs
25 micron build time: 3hrs

MAX X43
26x rings
Build size: 82.5 x 46.4 x 76mm
10 micron build time: 6.5hrs
25 micron build time: 3hrs

MAX
54x rings
Build size: 119 x 67 x 76mm
10 micron build time: 6.5hrs
25 micron build time: 3hrs

MAX LCD
55x rings
Build size: 121 x 68 x 76mm
10 micron build time: 16hrs
25 micron build time: 9hrs

PRO 4K 65
120x rings
Build size: 176.50 x 99.3 x 200mm
10 micron build time: 6.5hrs
25 micron build time: 3hrs

PRO 4K 80
175x rings
Build size: 217 x 122 x 200mm
10 micron build time: 6.5hrs
25 micron build time: 3hrs

Calculations approximate based on printing the Asiga sample ring

Ring SizeX, Y, Z: 22 x 6.5 x 27mm

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3D printing materials for jewelry manufacturing, from casting wax to rubber molding.

*Super*CAST HD

Direct Casting
Resin material
for Gold Alloys

*Super*WAX

Direct Casting
WAX material for
Platinum, Gold Alloys

*Super*CAST

Direct Casting
Resin material
for Gold Alloys

*Fusion*GRAY

Vulcanized
Rubber Molds
& RTV

*Super*CAST LCD

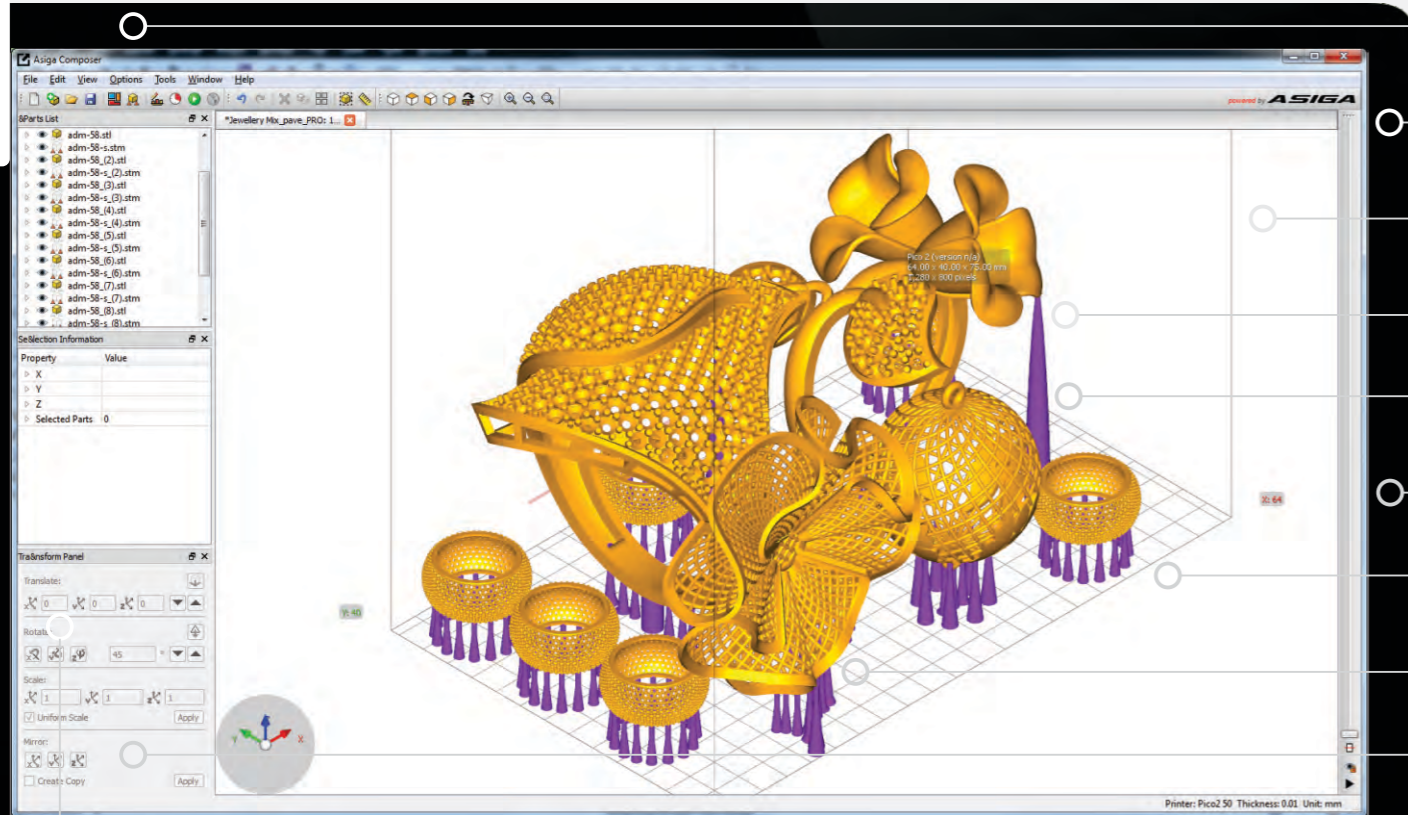Direct Casting
Resin material for Gold Alloys.
LCD printers only

Our Open Material System allows for printing with any suitable material from any material manufacturer.

1000mL   500mL   ○──── Materials available in both 500ml & 1l bottle sizes

ASIGA®

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Auto-Supports
for greater user efficiency

Remote Control
login to your 3D printer remotely

Build Time Estimator
schedule workflow

STL / SLC or Both
load STL & SLC into the same build

Flexible Supports
avoid support collisions

Multi-Stacking
maximize Z height usage

Dynamic Array
maximize build area usage

Add Casting Sprue
streamline casting workflow

Load Multiple Builds
onboard PC to store multiple builds

Final Check
measurement tool

License Free
free updates. forever.

User Control
full user access to build settings

Composer is the software interface to all our
3D Printers. Powerful, intuitive and free.

Multi-Operating System
Apple, Windows & Linux

macOS   Windows   Linux

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ASIGA

Free and unlimited lifetime technical support.
Local sales, service and support via our global
reseller network.

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Affordable Digital Manufacturing, it's something Asiga invented.

In 2011, Asiga launched the world's first LED based DLP 3D printer and started the affordable desktop stereolithography revolution which changed digital manufacturing forever.

Asiga won the MJSA's 2012 Thinking Ahead award for best new technology and gained international recognition for innovative products which continue to lead their respective categories to this day.

Asiga designs and manufactures all products at it's headquarters in Sydney, Australia. Asiga's in-house mechanical, electrical, software and materials team ensures continued innovation and product Improvement.

Contact us or one of our resellers to learn more.

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