ASIGA®

3D Printers for
Jewelry Manufacturing

Repeatable precision for quality assurance and productivity.

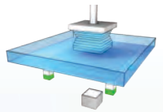
Being the creators of the precision desktop 3D printer market, we continue to offer precision, surface finish and product innovations designed to outperform any other.

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

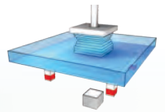
Smart Positioning System (SPS)

Asiga's Smart Positioning System (SPS) is a series of positioning encoders that read the exact position of the build platform during every layer approach. This ensures that the next layer is exposed/formed only once the build platform target position has been reached. This is the first step in ensuring each layer is formed accurately.

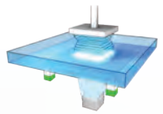
1. Approach
Platform moves to target position



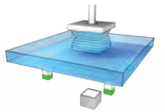
2. Encoder's Active
Printer waits until target is reached



3. Target reached
Image exposed



4. Separation
Layer separated from film



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

For fast and accurate processing of a wide range of jewelry materials.

Small pixel and accurate pixel placement

Pixel size and pixel placement are important for reproducing digital data accurately to achieve a high level of detail definition, surface smoothness and precision.

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.

4K mode - 3D printing reimagined.

4K mode

Using pixel shifting technology, Asiga's 4K mode reduces the pixel size to increase part accuracy and resolution without impacting build area or printing time.

Surface definition in Native mode

Surface definition in **4K mode**

PRO 4K

4K mode is available on all PRO 4K 3D printers only.

USER FEATURES
3D printing made easy

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

ASIGA
Jewelry Manufacturing Solutions

Open Material System
Over 380 optimized material profiles available via the Asiga Material Library online.
Fully Open - print any suitable material from any manufacturer

Single Point Calibration
Calibrate printer in under 60 seconds

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

Auto Power-Off
Energy saving mode and auto-recovery

Environmental Control
Onboard heater for reliable performance

Remote access and control
Streamlined integration into your digital workflow

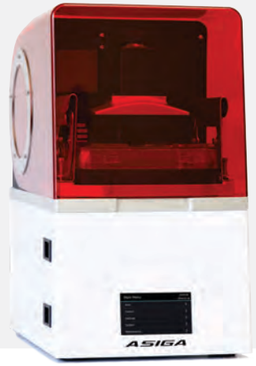
Touch Screen Display
For greater user convenience

Wifi Enabled
connect wirelessly

3D printers for jewelry manufacturing.

MAX
Desktop | Large Components | Compact

MAX X
Desktop | Highest Precision | Powerful



PRO 4K
Floor Standing | Volume production

MAX

Volume production on your desktop.

Offering the largest print size in our desktop series, the MAX will reproduce the most delicate details for the production of jewelry patterns. The larger print volume accommodates bangles, watch components and large quantities of casting patterns in a single print.

Product specification

Build Volume X, Y, Z	119 x 67 x 76mm. 4.68 x 2.63 x 3 inches
Pixel Resolution	62µm
Technology	DLP
LED Wavelength	405nm (high power LED)
Material Compatibility	Open Material System. Over 400 validated materials available via Asiga's Material Library online.
Production	Jewelry Manufacturing
Software	Asiga Composer software. Lifetime updates included
File inputs	STL, SLC, STM (Asiga Stomp file format)
Network Compatibility	Wifi, WirelessDirect, Ethernet
Power requirements	100-240VAC, 50/60Hz, 2.0A MAX
System sizing	260 x 380 x 370mm / 16.50Kg. 10.2 x 15 x 14.5 inches / 36.4Lbs
Packed sizing	410 x 500 x 480mm / 19Kg. 16.1 x 19.7 x 18.9 inches / 41.9Lbs
Warranty	12 months manufacturers warranty
Technical support	Unlimited lifetime technical support included
Bundle includes	3D printer, Composer software, 1Kg Asiga material, 1L build tray, Asiga Flash post-curing chamber, calibration toolkit

* Contact Asiga for information regarding material biocompatibility certification in your region

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)

PROUD MEMBER OF MJSA

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.

Product specification	MAX X27	MAX X35	MAX X43
Build Volume X, Y, Z	51.8 x 29.1 x 76mm. 2 x 1.14 x 3 inches	67.2 x 38 x 76mm. 2.6 x 1.5 x 3 inches	82.5 x 46.4 x 76mm. 3.24 x 1.82 x 3 inches
Pixel Resolution	27µm	35µm	43µm
Technology	DLP	DLP	DLP
LED Wavelength	405nm (high power LED)	405nm (high power LED)	405nm (high power LED)
Material Compatibility	Open Material System. Over 400 validated materials available via Asiga's Material Library online.		
Production	Jewelry Manufacturing		
Software	Asiga Composer software. Lifetime updates included		
File inputs	STL, SLC, STM (Asiga Stomp file format)		
Network Compatibility	Wifi, WirelessDirect, Ethernet		
Power requirements	100-240VAC, 50/60Hz, 2.0A MAX		
System sizing	260 x 380 x 505mm / 19Kg. 10.2 x 15 x 19.9 inches / 41.9Lbs		
Packed sizing	400 x 510 x 630mm / 21.5Kg. 15.7 x 20 x 24.8 inches / 47.4Lbs		
Warranty	12 months manufacturers warranty		
Technical support	Unlimited lifetime technical support included		
Bundle includes	3D printer, Composer software, 1Kg Asiga material, 1L build tray, Asiga Flash post-curing chamber, calibration toolkit		

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PROUD MEMBER OF MJSA

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)

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. Available in two native pixel configurations depending on your production requirements.

4K MODE

Product specification	PRO 4K65	PRO 4K80
Build Volume X, Y, Z	176.5 x 99 x 200mm. 6.94 x 3.9 x 7.87 inches	217 x 122 x 200mm. 8.54 x 4.8 x 7.87 inches
Pixel size - 4K mode	46µm	56µm
Pixel size - Native mode	65µm	80µm
Technology	DLP	DLP
LED Wavelength	405nm (high power LED)	405nm (high power LED)
Material Compatibility	Open Material System. Over 400 validated materials available via Asiga's Material Library online.	
Production	Jewelry Manufacturing	
Software	Asiga Composer software. Lifetime updates included	
File inputs	STL, SLC, STM (Asiga Stomp file format)	
Network Compatibility	Wifi, WirelessDirect, Ethernet	
Power requirements	100-240VAC, 50/60Hz, 500 Watts (100V - 5Amp Max. 240V - 2.1Amp)	
System sizing	465 x 540 x 1370mm / 140 kg 18.3 x 21.2 x 53.9 inches / 309 lb	
Packed sizing	900 × 700 × 1540mm / 205 kg 35.4 × 27.6 × 60.6 inches / 452 lb	
Warranty	12 months manufacturers warranty	
Technical support	Unlimited lifetime technical support included	
Bundle includes	3D printer, Composer software, 1Kg Asiga material, 2L build tray, Asiga Flash post-curing chamber, calibration toolkit	

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)

PROUD MEMBER OF MJSA

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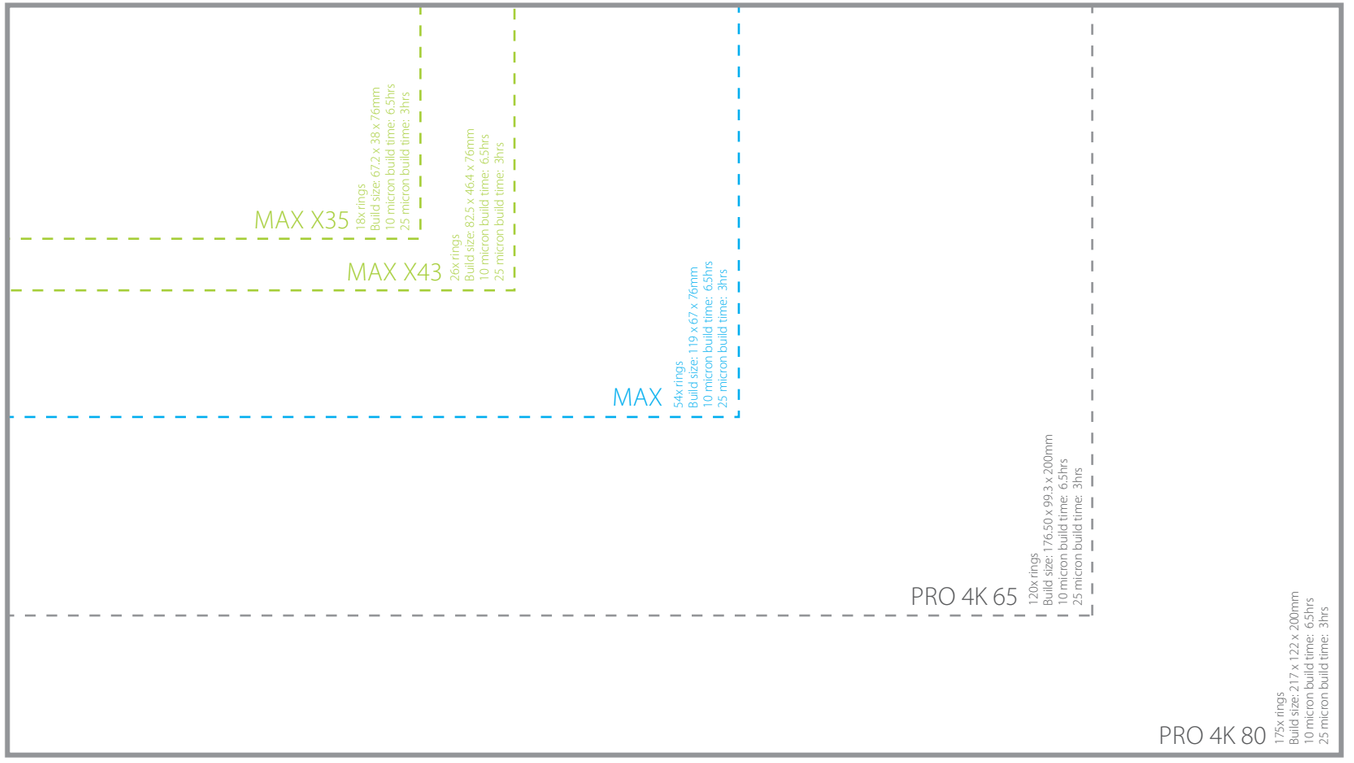
Which Asiga 3D printer is for you?

Select your Asiga 3D printer by considering both detail definition and available X,Y, Z build area.

Calculations approximate based on printing the following sample ring.

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



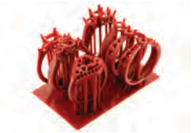
3D printing materials for jewelry manufacturing, from casting wax to rubber molding.

SuperCAST HD

Direct Casting
Resin material
for Gold Alloys

SuperWAX

Direct Casting
WAX material for
Platinum, Gold Alloys



SuperCAST

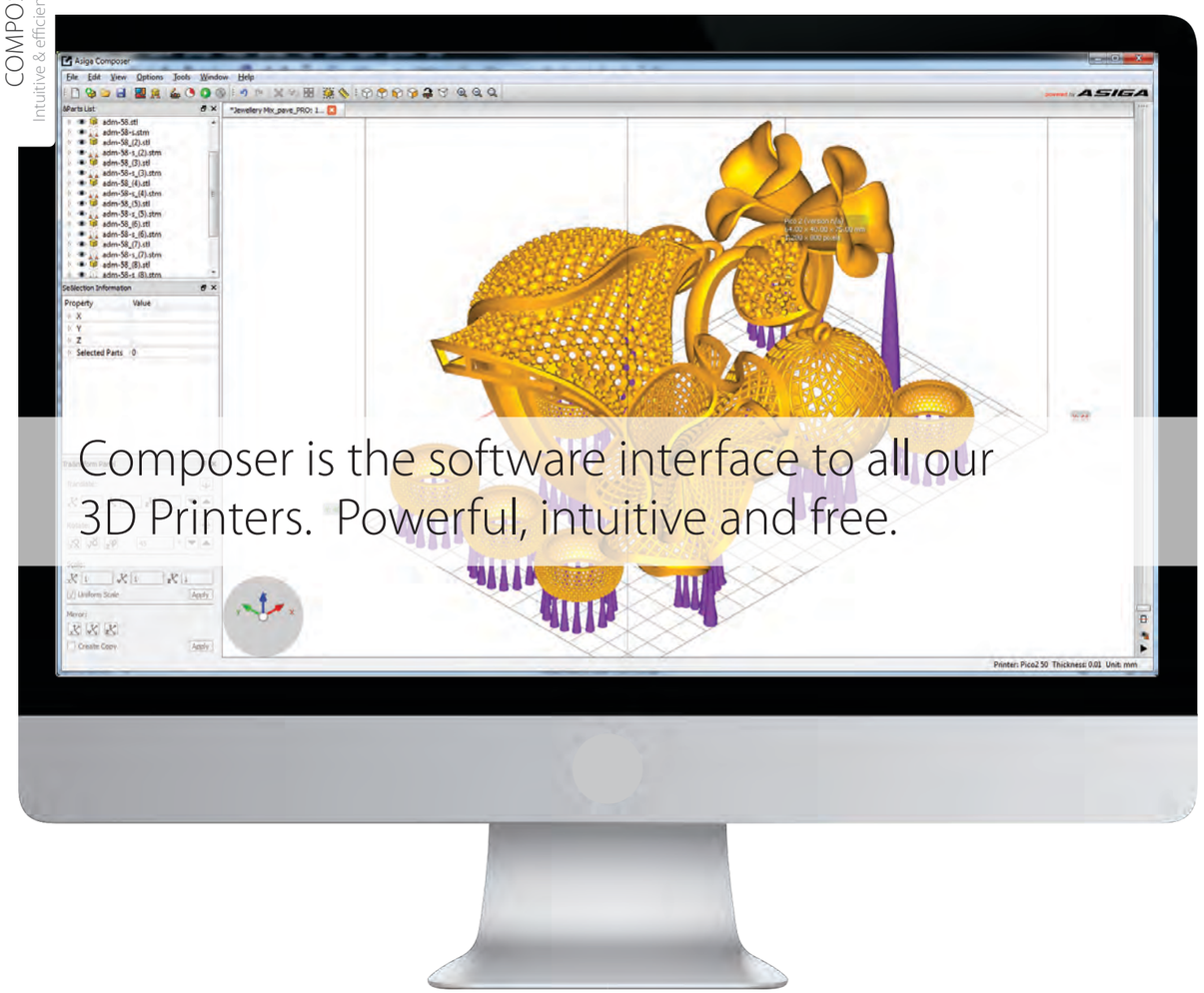
Direct Casting
Resin material
for Gold Alloys

FusionGRAY

Vulcanized
Rubber Molds
& RTV

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

Materials available in both 500ml & 1l bottle sizes



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

Automatic Support and Part Placement

For fast build processing and greater user efficiency

Build Time Estimator

Effectively schedule your production workflow

Multi-Stacking included

Maximize Z height usage and build multiple levels of parts

Simple & Intuitive

Submit builds within a minimal number of clicks. Compatible with file types STL, PLY, SLC, STM

Dynamic Part Array

Place parts based on geometry to maximize available build area

Load and Process Multiple Builds

Manage multiple builds at the same time in a simple tab based interface

Remote Control

Access your printer via a simple web interface

Compatible with
Apple, Windows, Linux

macOS Windows Linux

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

ASIGA®
Jewelry Manufacturing Solutions

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.

Asiga Australia (HQ)
2, 19-21 Bourke Road
Alexandria, Sydney 2015
Australia
TEL: +61 2 9690 2737

Asiga Germany
Kraempferstr. 4
99084, Erfurt
Germany
TEL: +49 361 5506 6866

Asiga USA
TOLL FREE: +1 877 689 99 98

info@asiga.com
www.asiga.com


ASIGA
Jewelry Manufacturing Solutions
ASIGA
www.asiga.com