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.
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.

**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.
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

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

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

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
3D printers for jewelry manufacturing.
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.

MAX

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 / 10Kg. 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.*
Open Material System.

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.

Printer Performance

Print capacity
- up to 26 rings (ring size dependent)

Print speed
- up to 25 microns per layer

Print cost (USD)
- $0.50 - $2 per piece (weight/material dependent)

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

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<th>Build Volume X, Y, Z</th>
<th>MAX X27</th>
<th>MAX X35</th>
<th>MAX X43</th>
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</thead>
<tbody>
<tr>
<td>31.6 x 26 x 14 mm</td>
<td>67.2 x 45.6 x 28.6 mm</td>
<td>82.5 x 46.4 x 31.8 mm</td>
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<tr>
<td>2 x 1 x 4/8 inches</td>
<td>2 x 1.5 x 1 inches</td>
<td>3 x 1.8 x 1.25 inches</td>
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www.asiga.com
OPEN MATERIAL SYSTEM

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.

PRO 4K

Printer Performance

| Print capacity | 178 rings (size dependant) |
| Print speed - 4K mode | 1.1 hr - 1.5 kg per hour |
| Print speed - Native mode | 65 rings - 1.3 kg per hour |

Print cost (USD) $0.50 - $2 per piece (weight/material dependant)

Build Volume X, Y, Z

PRO 4K 65

| Build Volume (mm) | 176.5 x 99 x 200 | 46.2 x 3.9 x 7.87 inches |
| LED Wavelength | 405 nm (high power LED) |

PRO 4K 80

| Build Volume (mm) | 217 x 122 x 200 | 8.5 x 4.8 x 7.87 inches |
| LED Wavelength | 405 nm (high power LED) |

Material Compatibility

Open Material System. Over 400 validated materials available via Asiga’s Material Library online.

Software

Asiga Composer software. Lifetime updates included

File inputs

STL, STL, STP (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 x 700 x 1540mm / 205 kg  35.4 x 27.6 x 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

Contact Asiga for information regarding material biocompatibility certification in your region.
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 Size X,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

www.asiga.com
Free and unlimited lifetime technical support. Local sales, service and support via our global reseller network.
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 its 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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Affordable Digital Manufacturing, it’s something Asiga invented.