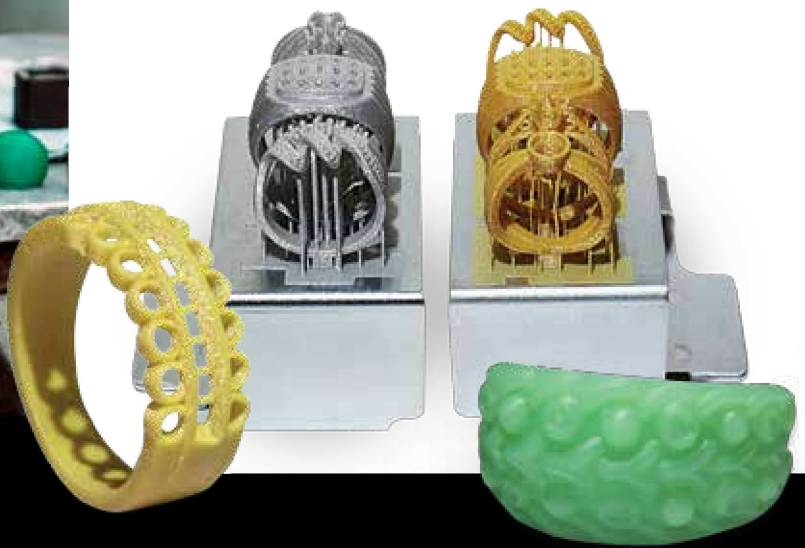
ProJet® 1200

Micro-SLA® Jewelry 3D Printer

Quickly print intricate casting patterns, stunning samples, and finished pieces in one affordable 3D printer

The ProJet® 1200 3D printer from 3D Systems puts the high precision and exceptionally fine feature detail of a professional 3D printer right on a jeweler's bench for an MSRP of $4,900. With a variety of VisiJet® FTX materials, the ProJet 1200 produces exceptionally detailed direct sacrificial patterns for easy casting, and it delivers a smooth surface finish, minimizing polishing of precious metal pieces. Insert a different material cartridge, and the same printer will produce samples and finished pieces in shimmery gold or silver hues, or clear glass-like materials.

The ProJet 1200 is so affordable to own and use that every jeweler can have one on his bench. Most jewelry pieces can be printed in under two hours and for less than $1 in materials, and the printer is no harder to use than a coffee maker. The ProJet 1200 delivers crisp details on small features and micro pave settings that meet or exceed printers costing over six times as much.



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MANUFACTURING*THE*FUTURE

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Net Build Volume (xyz)	43 x 27 x 150 mm (1.69 x 1.06 x 5.90 in)
Native Resolution (xy)	56 micron (effective 585 dpi*)
Layer Thickness	0.03 mm (0.0012 in)
Vertical Build Speed	Up to 14 mm/hour (0.55 in/hour)
Material	VisiJet® FTX Green, FTX Cast, FTX Gray, FTX Clear, FTX Silver, FTX Gold
Material Packaging	All-in-one cartridge with built-in print window
Post-processing	Built-in UV Curing Station
Software	– Easy installer – Network connection – Windows®-based OS – Automatic and optimized supports
File Input	STL
Electrical	
Input	100-240 VAC, 50/60 Hz, 2.0 A
Output	24 V DC, 3.75 A, 90 W max
Dimensions (WxDxH)	
3D Printer Crated	381 x 381 x 560 mm (15 x 15 x 22 in)
3D Printer Uncrated	230 x 230 x 362 mm (9 x 9 x 14 in)
Weight	
3D Printer Crated	12 kg (25 lbs)
3D Printer Uncrated	9 kg (20 lbs)

* Enhanced LED DLP technology provides an effective resolution of 585 DPI.

Micro-SLA

Micro-SLA is an additive manufacturing technology in which a thin layer of resin is contained in a build tray. The build platform lowers, transferring the resin to the build platform, and then the layer is cured by a UV projector. This process is repeated, building the part layer by layer until the model is finished.

A low cost, professional-grade jewelry 3D printer

- **Maximize your dollar** – Achieve unmatched part accuracy and smoothness for the most intricate casting patterns and high-quality, unique customer samples and end-use pieces.
- **Make precise parts** – 585 dpi print resolution means you see every detail and can produce your micro pave settings.
- **Accelerate your workflow** – Fast print times allow you to keep up with your constant need for precision parts and casting patterns. Print most jewelry pieces in less than two hours.
- **Get started with 3D printing at a low price** – The ProJet 1200's affordability and inexpensive prints make it the perfect tool for every jewelry designer. Print a ring for less than $1 in materials.
- **Get started quickly** – The ProJet 1200 features a convenient size and push-button operation.

Features:

- Enhanced LED DLP technology for 585 dpi resolution and 0.03 mm layers
- VisiJet FTX Cast material cleanly burns out for ash-free castings
- VisiJet FTX Gray shows off every detail and is ready for painting
- VisiJet FTX Clear creates models with a crystal-like appearance
- VisiJet FTX Gold and FTX Silver provide metallic appearance
- Prints fast – rings in two hours
- Integrated material cartridges ensure consistent high-quality parts every time
- Factory calibrated for reliably accurate operation
- Network-ready and USB printing

Materials		**VisiJet FTX Green** UV Curable Plastic	**VisiJet FTX Cast** UV Curable Plastic with Wax	**VisiJet FTX Gray** UV Curable Plastic	**VisiJet FTX Clear** UV Curable Plastic	**VisiJet FTX Silver** UV Curable Plastic with metallic flakes	**VisiJet FTX Gold** UV Curable Plastic with metallic flakes
Description		Tough castable plastic	Wax and plastic hybrid for delicate castings	Primer gray general purpose	Transparent Tough	Metallic Silver	Metallic Gold
Color		Dark Green	Light green	Gray	Clear	Metallic Silver	Metallic Gold
Cartridge Quantity		30 g	30 g	30 g	30 g	30 g	30 g
Density @ 80° C (liquid)		1.04 g/cm^3	1.01 g/cm^3	1.12 g/cm^3	1.1 g/cm^3	1.16 g/cm^3	1.16 g/cm^3
Tensile Strength	ASTM D638	30 MPa	2.2 MPa	28 MPa	24 MPa	16 MPa	16 MPa
Tensile Modulus	ASTM D638	1700 MPa	154 MPa	1288 MPa	1075 MPa	701 MPa	866 MPa
Elongation at Break	ASTM D638	10 %	2.20 %	6.20 %	13.50 %	11.70 %	5.70 %
Flexural Strength	ASTM D638	40 MPa	3 MPa	38 MPa	31 MPa	22 MPa	18 MPa
Ash Content		0.01 %	0.008 %	N/A	N/A	N/A	N/A

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