

Creating Family Heirlooms

JB Diamonds realizes dreams of fine jewelry with Solidscape



“ I don’t want to be in the middle or on the bottom of the totem pole. As far as the product and quality, I want to be on the top. ”

— Jules Barba, JB Diamonds & Fine Jewelry Owner

Full customization

JB Diamonds & Fine Jewelry is a family owned and operated business that specializes in custom jewelry. The company has been serving Southern California since 1983 and has established a well-earned reputation.

“It’s known in the community: If you want to have something done, there’s only one place to go — JB Diamonds,” says owner and artist Jules Barba, who routinely renders the visions of his clients into reality. “If you can think of it, we can make it.”

JB Diamonds artists sketch jewelry designs on paper and translate them into CAD via Matrix. The fine jewelry manufacturer then relies on its Solidscape® 3D printers to create high precision wax models, from which pieces are cast into precious metals.

JB Diamonds

jbdiamonds.com

Industry

Jewelry

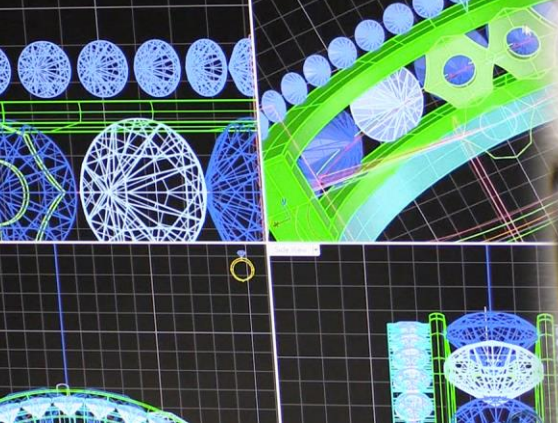
Customer Needs

- Meeting high customer expectations with heirloom-quality jewelry
- Consistent results and flawless symmetry
- Faster process
- Technical support

Benefits

- Castability
- Perfect angles and fine detail
- High finished quality
- From vision to production to final piece in record time
- Minimal downtime
- Fully supported





Design



Cast



Deliver

Inspired details

JB Diamonds' process requires intricate wax models. Carving them by hand, however, is a challenge for jewelers.

"If you're right-handed, the right-hand side of the models will always be more perfect than the left-hand side," explains Barba, adding that skilled but unavoidably imperfect handwork results in highly variable angles within each piece. "When you're dealing with miniature products like jewelry, those little details make a big difference. Your eye picks up on it right away."

Using 3D CAD software and Solidscape printers eliminates the inconsistencies. "When you say 45 degrees, it's exactly 45 degrees," Barba laughs. "That's what makes the difference. You have the perfect symmetry and the perfect angles."

Customer satisfaction

JB Diamonds works with customers to create truly unique fine jewelry — new family heirlooms to cherish. Using Solidscape printers, Barba can also produce them remarkably quickly. Once the design is finalized, he works with his expert staff to print a 3D wax model almost immediately. The casting only takes a few days more.

"I tell my client, 'You don't have to call, you just can come in anytime you want.' [The piece will either be] in the 3D printing side or the metal manufacturing side. Between those two rooms, the next thing is it's done," says Barba. "The most exciting thing is going through the whole process of making, collaborating with the client. And when the product is actually finished, you can see the reaction of a very happy, satisfied client."

"I've used other 3D machines here and decided to use Solidscape because of the castability of the materials ... and, a very important thing, the technical support part of it."

— Jules Barba



solidscape

HIGH PRECISION 3D PRINTERS

Solidscape is the leading manufacturer of high-precision 3D printers, materials and software for rapid prototyping and manufacturing.

www.solid-scape.com