

R66[®] PLUS

The high-precision
3D printer for custom
retail jewelers

...now with SCP[®] technology



The R66[®] PLUS is the entry point to Solidscape's BENCHMARK[™] series of 3D printers. Targeted at the progressive custom retail jeweler, the R66 PLUS is capable of producing high-quality, fully castable wax masters for your most intricate fine jewelry designs. And with new SCP[®] technology, the R66 PLUS is truly the jeweler's benchmark for quality.

The R66 PLUS uses the familiar Windows[®] interface, allowing it to be used with all of the popular 3D jewelry design software. You make the choice.

If ease of use, high casting yields, low cost-per-master produced and high levels of customer satisfaction are all important factors to your retail jewelry business, then the Solidscape BENCHMARK line is the best price/performance solution for your business.



Solidscape[®]

When Precision Counts ...

Solidscape[®], Inc. is the leading manufacturer of high-precision 3D printing systems. Our systems are used to produce prototypes and casting patterns for the creation of fine jewelry, dental restorations, turbine blades, medical instruments and prostheses, consumer goods, electronics, and many other high-precision products.

Indura[®] Cast

Non-toxic thermoplastic material featuring excellent lost wax casting qualities: fast melt out, no ash or residue, no thermal expansion.

Formulated to deliver the **highest casting yields** for demanding fine jewelry applications.

SCP[®]

SCP[®] (Smooth Curvature Printing) is Solidscape's proprietary new printing technology that delivers the highest precision in the industry and a surface finish beyond compare.

Developed to enhance throughput performance up to 25% (depending upon model geometry) and deliver patterns that stand alone in the industry... the true benchmark of quality.

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Solidscape R66_{PLUS} system specifications

R66_{PLUS} System

- Build envelope: 6 x 6 x 4 in /152.4 x 152.4 x 101.6 mm
- Small footprint: 21.60 in (54.86 cm) width x 19.26 in (48.92 cm) depth x 16.05 in (40.77 cm) height
- Weight: 75 lbs (34 kg) without packaging
- Power requirements: 115v 60Hz AC with a dedicated 20A circuit or 230v 50Hz AC with a dedicated 10A circuit
- Recommended ambient operating temperature: 60° to 80°F (16° to 27°C) at a 40% to 60% range of humidity
- Desktop operation; no facility modifications required
- Ethernet network ready
- USB 2.0 connector for using a flash drive for file transfers

Efficient

- User-adjustable speed and build parameters for job-by-job efficiency
- Unattended operation (72 hours)
- Automatic status monitoring and fault detection
- Automatic re-start of build from point of interruption
- Easy-to-dissolve wax support: no post-build benchwork of model surfaces
- Fast meltout in autoclave, no ash, residue or thermal expansion
- Industry acclaimed casting results from Solidscape® brand build materials



Precise

- Adjustable Z-axis build layer: from 0.0005 inches (12.7μ) to 0.0030 inches (76.2μ)
- Achievable accuracy: ± 0.001 inches (25.4μ) per inch across the X, Y and Z dimensions
- Surface finish: 32-63 micro-inches (RMS)
- Minimum Feature Size: 0.010 inches (254μ)
- Calibrated Configurations for 0.0005, 0.0010, 0.0015, 0.0020, 0.0025 and 0.0030 in (12.7μ, 25.4μ, 38.1μ, 50.8μ, 63.5μ, 76.2μ) build layer
- 5,000 dpi XY resolution

Compatible

- No special facility modifications necessary
- Able to accept input from all popular 3D jewelry CAD software
- Build and support material are of non-toxic composition

ModelWorks® Software

- Familiar Windows interface
- CAD file input: .STL and .SLC
- Variable slice thicknesses supported in the same model or pattern
- Established calibrated configuration build files for rapid setup and “first pass” model success
- Automatic generation of model support structure
- Operates with standard PC running Microsoft Windows XP Professional or Windows Vista Business

