

MAX²

Precision *and* Performance

High Precision 3D printer for Manufacturing

The **SolidScape® MAX²** is the high precision 3D printer for the manufacturing of wax patterns. **MAX²** supports higher throughput and delivers very significant production gains for precision designs in jewelry, medical and industrial manufacturing applications.

Easy One-Touch Operation

The fully automated **MAX²** printer features a user-friendly touch screen and innovative software that allows operators of any skill level to produce their own high-precision wax patterns ready for casting.

Efficient Workflow

New **MAX²** high performance capabilities greatly reduce the manufacturing workflow process time while delivering high casting yields and low cost-per-parts.

Superior Casting Results

Exclusive SolidScape 3Z® Model and 3Z® Support materials produce extremely smooth wax parts that accurately reproduce the most intricate of geometries while eliminating the need for manual post-production refining processes. Superior casting properties include fast meltout, no ash or residue, and no thermal expansion.



Optimized Applications—Precision *and* Performance



Fine Jewelry

Industrial

Advanced Medical Research

SolidScape®

System Specifications



EASE OF USE

Fully Automated	Plug and print Automatic calibration and testing
Accessible	Icon-based user interface Files, job start-up and job status can be managed and viewed remotely from PC

HIGH PRECISION RESULTS

Resolution	5000 X 5000 dots/inch (197 X 197 dots/mm) in X, Y 8000 dots/inch (315 dots/mm) in Z
Accuracy	± 0.0010 inch/inch (±25.4µ/25.4mm) along each axis X, Y and Z
Layer Thickness	User selectable through variable slider 0.001in ↔ 0.002in (25.4µm ↔ 50.8µm) in ¼ mil (6.3µm) steps
Surface Finish	Layer thickness dependant, up to 32 micro-inches (RMS)

OFFICE ENVIRONMENT

Desk-top Size	21.4" W X 18"D X 16" H (558 X 495 X 419 mm)
Weight	75 lbs. weight (34 kg)
Build Envelope	6" X 6" X 4" (152.4 X 152.4 X 101.6 mm) X, Y, Z Consistent Results over entire 6 inch x 6 inch (152.4mmx152.4mm) area
Power Requirements	90-250-v, 10A @ 230v max consumption
Ambient Operating Temp	Recommend 60° to 80° F (16° to 27° C) at a 40% to 60% range of humidity
Equipment Interface	PC to printer connectivity Wireless Wi-Fi 802.11 b/g, Ethernet Hi-Speed USB 2.0

MATERIALS

3Z®Model	Model material formulated for clean burnout to produce 100% casting results.
3Z®Support	Sacrificial support material is generated automatically for each job, and later dissolved away for a labor-saving, hands-free operation.

EFFICIENT WORKFLOW

CAD file input	.stl and .slc files
3Z®Works	Software formats CAD files for 3D printing Allows operator to visually place job suites within build envelope Automatically generates support structure, saving on design time
3Z®Touch	System Software is Windows® based
Automatic	Status monitoring and fault detection Re-start of build from point of interruption Works unattended up to 72 hours
SCP®	Smooth Curvature Printing for superior surface finish

AGENCY COMPLIANCE

CE certified; FCC Class A approved TUV approved (EN 60950 Compliant)

Solidscape, Inc. is the leading manufacturer of high precision 3D printers, materials and software for direct manufacturing, able to print solid parts designed in CAD.

Solidscape systems incorporate innovative printing technologies and material properties that advance the state-of-the-art in computer-controlled fabrication of master patterns, by providing the highest standards in surface finish, accuracy and material castability.

Solidscape wax patterns are ideal for investment casting and mold making applications such as fine jewelry, dental restorations, turbine blades, biomedical products, orthopedics, consumer goods, electronics, toys and many other high precision products.

These systems are true office peripherals--easy to use and residing on a desk.



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