From Design to Finished Piece

The fully automated **Solidscape® Pro** printer brings the power of high precision 3D printing to the office desktop and retail environment. Users of any technical level can produce their own high precision wax parts, ready for casting.

Easy One-Touch Operation

Using icons as a common language, a familiar print dialog box makes an array of functions readily understood and quickly accessible.
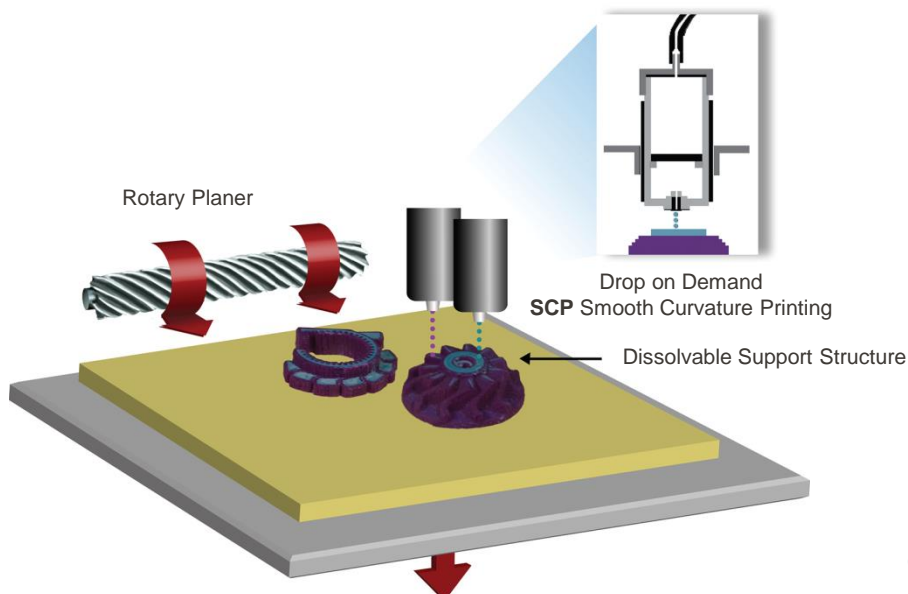
Efficient Workflow

Pro capabilities drive an extremely efficient manufacturing workflow process delivering high casting yields, consistent turnarounds and low cost-per-parts.

Superior Casting Results

The exclusive 3Z®Model and 3Z®Support materials produce extremely smooth wax parts accurately reproducing the most intricate of geometries without the need for manual refining and with superior casting properties; fast meltout, no ash or residue, and no thermal expansion.

Rotary Planer

Drop on Demand
SCP Smooth Curvature Printing

Dissolvable Support Structure

DoD/SCP® technology

- Resolution
- Castability
- Surface Finish

Solidscape®
High Precision 3D Printers

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 0.00025in ↔ 0.003in (6.4µm ↔ 76.2µm) in ¼ mil (6.3µm) steps
Surface Finish	Layer thickness dependent, 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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