

D76+

The high-precision 3D wax-up printer for dental laboratories ... now with SCP™ technology



The D76+ 3D printer is the flagship of Solidscape's new preXacto™ product line. It is targeted at medium size dental laboratories and is used to produce high quality castable and pressable restorations.

The D76+ offers a flexible open architecture design, allowing it to be readily integrated into your total rapid manufacturing lab system.

If ease of use, high casting yields, low cost-per-model produced and high levels of customer satisfaction are all important factors to your digital dentistry workflow, then the Solidscape preXacto™ line is the best price/performance solution for your dental laboratory.



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.

dentaCast™

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

Formulated to deliver the **highest casting yields** for demanding dental 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 50% and impact the production volumes of the digital dental laboratory.

Solidscape®, Inc.

316 Daniel Webster Highway
Merrimack, NH USA
03054-4115
Tel: +1 603-429-9700
Fax: +1 603-424-1850

Email: precision@solid-scape.com

Visit our World Wide Web site at
<http://www.solid-scape.com>

Solidscape D⁷⁶⁺ plus system specifications

D⁷⁶⁺ plus System

- Build envelope: 6 x 6 x 4 in. /152.4 x 152.4 x 101.6 mms
- Small Footprint: 21.60 inches (54.86 cm) width x 19.26 inches (48.92 cm) depth x 16.05 inches (40.77 cm) height
- Weight: 75 lbs (34 kg) without packaging
- Power requirements: 115v 60 Hz AC with a dedicated 20 A circuit or 230v 50 Hz AC with a dedicated 10 A 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
- Touch screen LCD display
- USB 2.0 connector for using a flash drive for file transfers; Ethernet network ready

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
- Outstanding casting yields



Precise

- Adjustable Z-axis build layer: from 0.0010 inches (25.4μ) to 0.0025 inches (63.5μ)
- 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 0.0010, 0.0015, 0.0020 and 0.0025 inch (25.4μ, 38.1μ, 50.8μ, 63.5μ) build layer
- 5,000 dpi XY resolution

Open Architecture

- Proven connectivity and compatibility
- Able to accept data from any open system scanner or software

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

