

3Z LAB

Dental Wax-Ups Perfected

Cost-Per-Case Advantage

The new 3Z Lab by Solidscape helps lab owners hold the line on rising costs while remaining competitive against offshore pricing pressure.

Uncompromising Surface Quality and Fit

With intuitive one-touch simplicity, dental lab technicians can now produce wax-ups ready for casting and pressing with the most accurate marginal integrity, occlusion, contact, and anatomy form. The 3Z Lab printer is optimized for the batch processing of dental wax-ups that produce crowns, bridges and copings with superior margins—providing patients with a perfect fit.



Going Digital Simplified

Designed specifically to meet the needs of dental labs, the fully automated 3Z Lab printer eases the transition to a total digital lab workflow by easily integrating with open architecture dental scanners and software while maintaining Solidscape's industry-leading surface quality and precision. Going digital has never been easier.

Strongest Dental Wax Material

New 3Z LabCAST is Solidscape's strongest dental wax material ever featuring 100% castability with no material shrinkage. The crowns, copings and bridges produced by your Solidscape 3Z Lab printer can be directly investment cast or pressed for the highest precision dental restorations.

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 dpi (197 X 197 dots/mm) in X, Y 8000 dpi (158 dots/mm) in Z
Accuracy	± 0.0010 inch/inch (±25.4µ/25.4mm) along each axis X, Y and Z
Surface Finish	32-63 micro-inches (RMS)

OFFICE ENVIRONMENT

Desk-top Size	21.4" W X 18"D X 16" H (558mm X 495mm X 419 mm)
Weight	75 lbs. weight (34 kg)
Build Envelope	6" X 6" X 2" (152.4 X 152.4 X 50.8 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 Hi-Speed USB 2.0

MATERIALS

3Z LabCAST	Model material formulated for clean burnout to produce 100% castings
3Z LabFill	Sacrificial material generated automatically for each job, and later dissolved away for a labor-saving, hands-free operation.
Dewax	Liquid solution used to dissolve sacrificial material

EFFICIENT WORKFLOW

CAD file input	.stl and .slc files
3Z™Works	Software that formats CAD files for 3D printing Allows operator to visually place job suites within build envelope Automatically generates sacrificial support structure, saving 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)

3Z LAB

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 or countertop.



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