

SOL LCD 3D Printer

Distributed by Roland DGA

SOL offers a complete solution for today's dental 3D printing technology



Master Sales Guide

06.24.2021 Final

Introducing SOL LCD 3D Printing Technology

We are proud to add BRAND NEW LCD 3D printing technology to our DGSHAPE DWX product line and assist you in continuing to build your business with your trusted partner in Roland DGA, DGSHAPE Americas.



Our easy-to-use DGSHAPE DWX Wet & Dry Dental Mills and NEW SOL LCD 3D printing technology are all designed for everyday use by laboratories of all sizes, as well as clinicians and DSOs. These advanced devices can help expand your businesses' offerings with the capability for same-day dental applications, reducing turnaround times and eliminating the need for outsourcing.

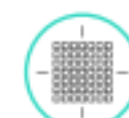
SOL Brings Light into 3D Dental Applications

A faster, precise, and more affordable way to produce high-end 3D dental applications. Here is how SOL achieves those results:

- SOL LCD 3D printing technology can print at three times the speed of standard SLA printers and has five times more UV Power than previous models to match and/or exceed that of DLP printers.
- SOL's cutting-edge AI software assists in eliminating 80% of end-user errors while producing accurate and predictable results.
- SOL's user-friendly platform and software are ideal for beginner level users as well as advanced users. Its simple workflow and zero calibration requirements make this device ready to use straight out of the box.
- Accelerated printing speed and quality can produce provisional crowns and bridges in just 30 minutes.



54 LEDs calibrated
to be completely
uniform



49-micron
Pixel-size



100+ Prevalidated
Materials



Selective curing for
improved accuracy
and lifespan



Instant access to
resin updates

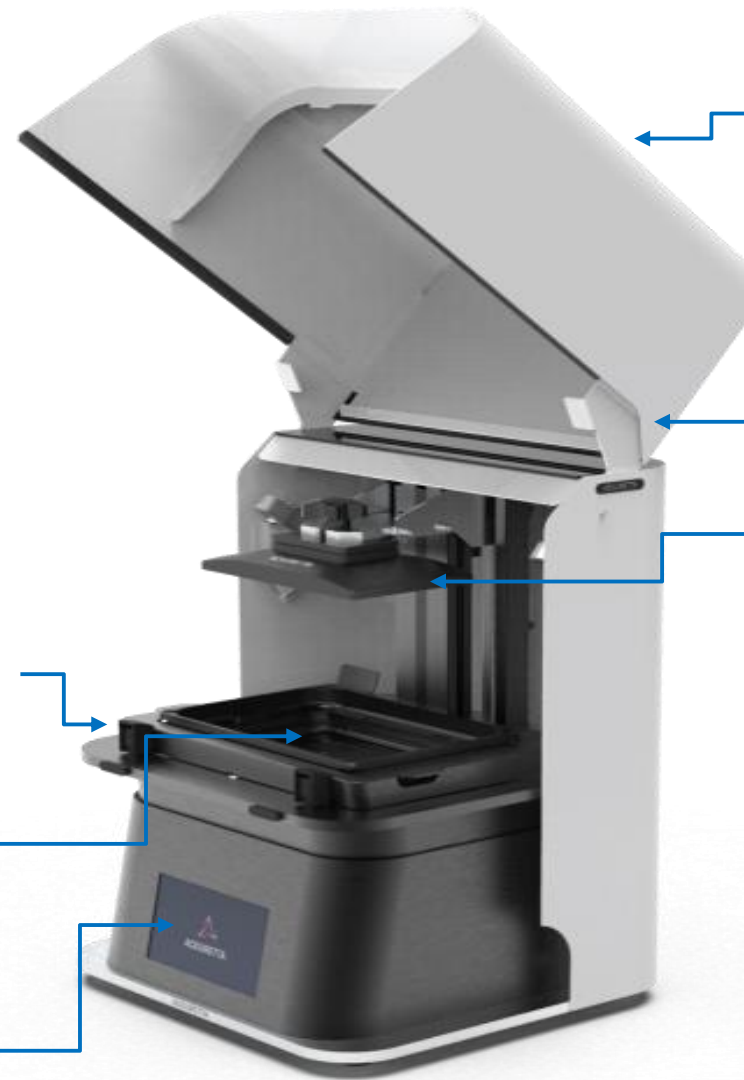
SOL Unit Features

- 100+ validated and pre-calibrated resins
- User-friendly platform & software
- Simple component replacement
- Designed for same-day services to reduce turnaround times and eliminate the need for outsourcing

Fail-safe Vat Frame

Vat Standoffs for longer vat film life

User-friendly touchscreen



Sleek, modern, and durable finish

Swivel-Hinged UV Filter Hood

Durable, easy-to-remove build plate

SOL Specifications

3D Printing Technology	LCD
Printing Size	128 x 80 x 140 mm
Printing Speed	4.5 cm/hr
Pixel Size	49 Micron
Printer Wavelength	385~405 nm
Material System	Open Architecture
Machine Size (Width x Depth x Height)	11.42 x 10.63 x 16.54 in. (29 x 27 x 42 cm)
Machine Weight	~33 lbs. (15 kg)
Power Supply	110-240 V AC, 50-60Hz

- Auto-calibrated unit, no user calibration required
- Two-Year Warranty
- Three times faster than standard SLA printers and matches and/or exceeds DLP printing speeds
- Backed by your trusted partner in Roland DGA, DGSHAPE Americas support team (additional remote diagnostics and repair services also available)



Dental Applications

- Provisional Crowns, Bridges
- Dental Models (Full-Arch & Quadrant)
- Surgical Guides
- Dentures
- Occlusal Guards & Splints
- Removable Die Fits



Product Certifications



USB, Ethernet/LAN
Connectivity
Wi-Fi Enabled

SOL Print Performance



Dental Model



Surgical Guide



Temporary Crown



Denture Base



Denture Teeth

Print Time	60 Mins	45 Mins	25 Mins	90 Mins	30 Mins
Average # Prints Per Bottle	75	150	2500	100	300
Average Cost Per Print (USD)	\$3.00	\$2.00	\$0.20	\$3.00	\$1.00



IBT



Tray



Gingiva



Splint



Mouth Guard

Print Time	40 Mins	90 Mins	25 Mins	40 Mins	90 Mins
Average # Prints Per Bottle	155	65	1000	80	50
Average Cost Per Print (USD)	\$2.00	\$3.00	\$0.50	\$2.00	\$3.00

SOL LCD 3D Printer Bundle

SRP \$7,995

A complete out-of-the-box solution for today's dental 3D printing markets.



Bundle Includes:

- **SOL LCD 3D Printer**
- **Dual-Tank Ultrasonic Cleaning Unit**
- **UV Curing Unit**
Approved for CLII Restorations
- **Resin Starter Kit**
Model, Temp, & Splint Resin Materials (1-kg bottle of each)
- **Alpha 3D Software**
Quarterly Updates & Precalibrated resin profiles included
- **Two-Year Standard Warranty**
- **Spare Vat Tray**
- **Wi-Fi Dongle**
- **Ethernet Cable**



Optiprint - Quality, Durable 3D Printing Resins

Two-Year Shelf-life



❖ Average 75 prints per bottle

Optiprint Model resin is specifically designed for model production as it is light and moisture stable. The opaque ivory color allows for optimal visibility of preparation margins and is abrasion resistant, which ensures processing that replicates that of traditional plaster model.



❖ Average 2,500 prints per bottle

Optiprint Temp premium resin is biocompatible for the additive manufacturing of provisional crowns and bridges. Its strength ensures high-durability as well as abrasion resistance with natural esthetic shades compatible with the VITA® shade guide. Optiprint Temp is easy to print and polish, as well as tasteless.



❖ Average 80 prints per bottle

Optiprint Splint resin is specifically designed for occlusal guard and splint production. Unlike comparable products, Optiprint Splint retains its material properties under most normal laboratory conditions. It prints tasteless, high-quality, durable dental applications in about 40 minutes.

Pricing & Accessories

SKU#	ITEM DESCRIPTION	SRP
ACK-SOL-K	SOL LCD 3D Printer Bundle	\$7,995.00
ACCESSORIES, ETC.		
ACK-SOL-BPL	Build Plate for SOL Unit	\$225.95
ACK-SOL-VAT	VAT Tray for SOL Unit	\$225.95
ACK-SOL-SCRN	Print Screen for SOL Unit	\$430.95
DEN-TEMP	Optiprint Temp 385 (Vita A2), 1kg	\$354.95
DEN-SPLINT	Optiprint Splint (Clear), 1kg	\$300.95
DEN-MODEL	Optiprint Model (Ivory), 1kg	\$223.95
DEN-GUIDE	Optiprint Guide (Transparent), 1kg	\$300.95

Available for purchase exclusively through
authorized Roland DGA resellers.

Please visit **www.rolanddga.com/SOL-3D**
for more information.

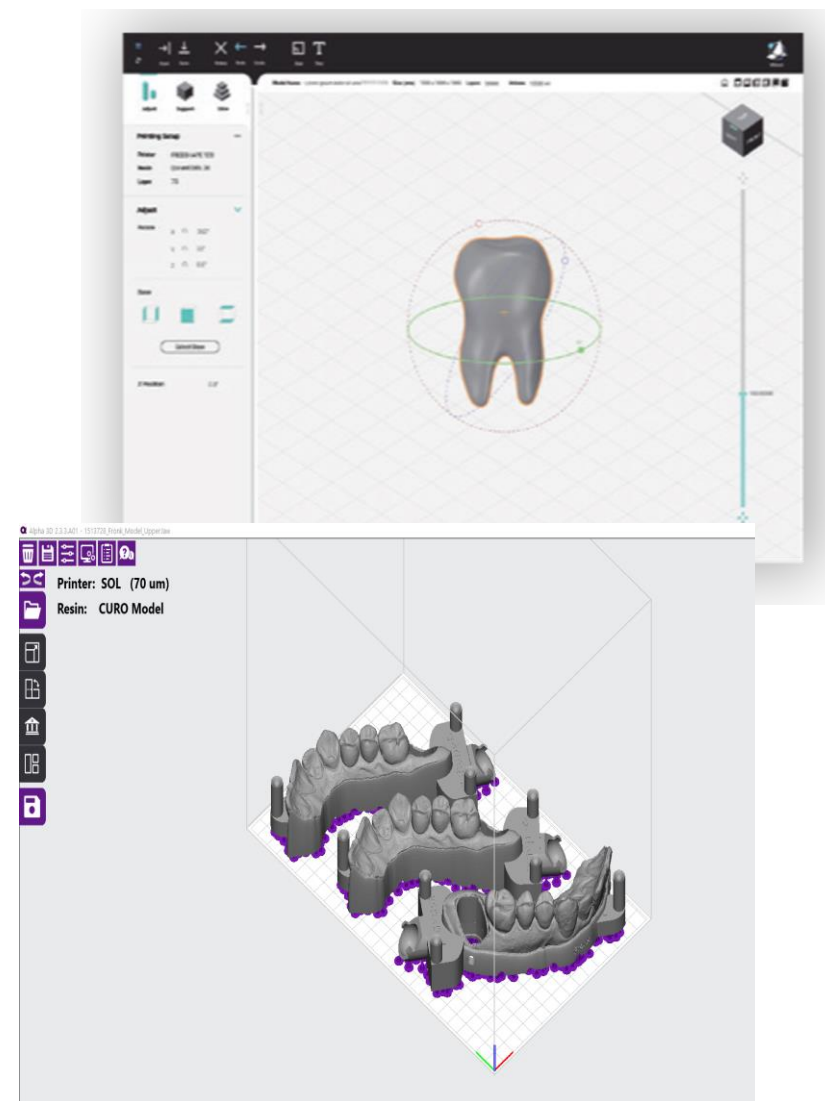


Alpha 3D

Nesting Software

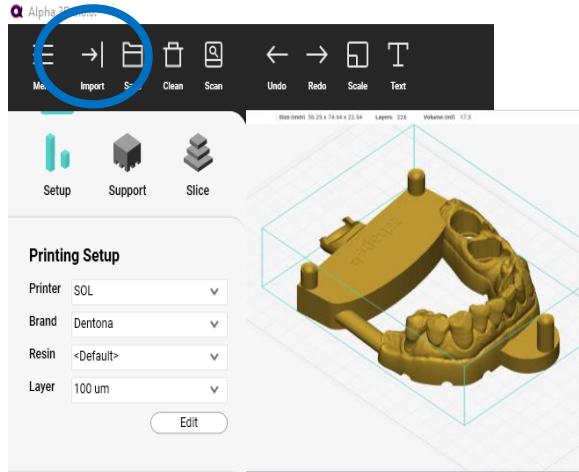
Installation Tips

- Alpha 3D Nesting software is available for download via www.rolanddga.com/SOL3D
- Temporarily disable computer security settings, if necessary
- Firmware updates will automatically run when the SOL unit is connected to Wi-Fi

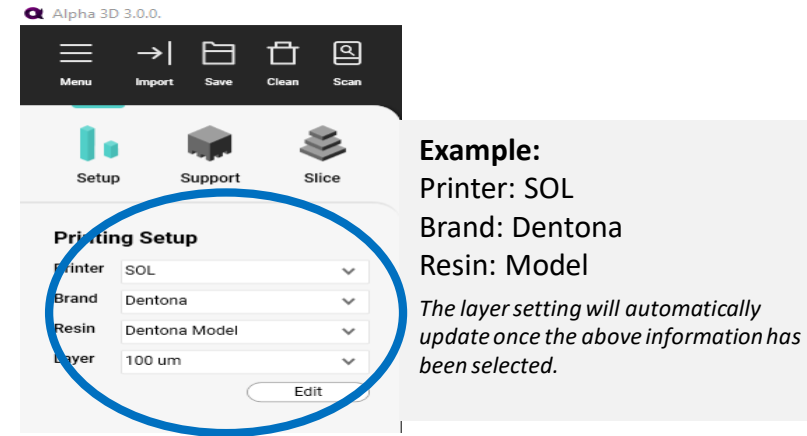


How does SOL work with Alpha 3D Software?

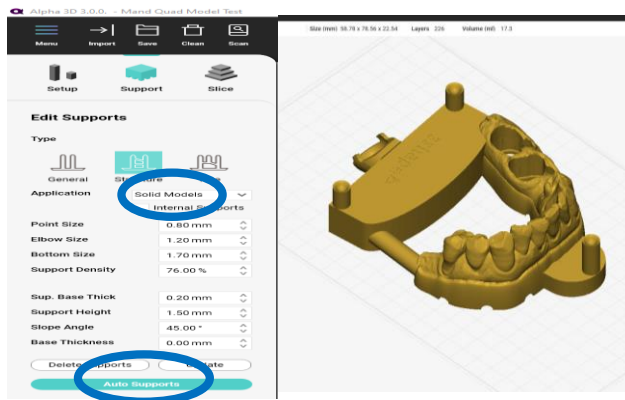
1. Import STL file into Alpha 3D



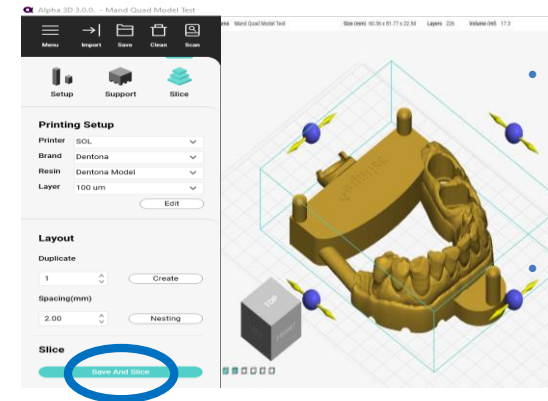
2. Select Job Application Type



3. Select Orientation, Application, and Click “Auto Support”



4. Click Save & Slice



The “ibf” job file for printing will automatically save in the folder labeled

“3DP Data” on your PC unless an alternate location is selected.

You can now print the job by connecting to the printer via Wi-Fi from your PC, or by simple inserting a USB flash drive in the back of the SOL unit.

Thank you

For any additional questions, please contact your
dedicated Roland DGA, DGSHAPE Americas
Sales Representative