



DWP-80S



Specifications		
Applications	Custom trays, base plates, and frameworks	
Build technology	Layered projection system	
Build size	80 (W) × 80 (D) × 80 (H) mm (3.15 (W) × 3.15 (D) × 3.15 (H) in.) (The maximum amount of use per job is 300 g (0.66 lb.))	
Light source	UV-LED (Ultraviolet light-emitting diode)	
Power supply	Machine	DC 24 V, 0.8 A
	Dedicated AC adapter	AC 100 to 240 V ±10 %, 50/60 Hz
Power consumption	20 W	
Operating noise	During operation	55 dB (A) or less
	During standby	49 dB (A) or less
External dimensions	430 (W) × 365 (D) × 450 (H) mm (16.93 (W) × 14.37 (D) × 17.72 (H) in.)	
Weight	24 kg (53 lb.)	
Interface	USB	
Installation environment	During operation	Temperature: 20 to 30 °C (68 to 86 °F), Humidity: 35 to 80 % RH (no condensation)
	Power off	Temperature: 5 to 40 °C (41 to 95 °F), Humidity: 20 to 80 % RH (no condensation)
Included items	AC adapter, power cord, USB cable, liquid material vat, printing/cleaning tools (Metallic spatula, plastic spatula, tweezers, washing container × 2, hexagonal wrench, rubber gloves, work tray, etc.), Read First (booklet), etc.	



System Requirements	
Operating system (OS)*	A model preinstalled with Windows® 10, 8.1, 7 (32/64-bit versions) (64-bit version recommended) or an upgraded computer originally preinstalled with Windows® 7 or later
CPU	Intel® Core i5 or better CPU (Core i7 or higher recommended)
Memory	4 GB of memory or more (8 GB of memory or more recommended)
Optical drive	CD-ROM drive
Video card and monitor	1,280 × 1,024 pixels or more
Free hard-disk space required for installation	100 MB or more
USB cable	Use the included USB cable.

* Operation of the machine has been verified using an Intel® Graphics HD 4000 graphics card built in to the CPU.

Options	
SR100-TR	Photo-Cured Resin for Custom Trays, 1,000 g
SR100-BS	Photo-Cured Resin for Base Plates, 1,000 g
SR100-CS	Photo-Cured Resin for Frameworks, 1,000 g
LMV-80	Replacement vat
LC-3DPrint Box	Post Curing Unit

* If the base plate resin or the custom tray resin does not cure sufficiently, the job will not meet biocompatibility requirements. It is mandatory to use the genuine resins and curing unit for producing the applications above.

The DGSHAPE Brand Promise

DGSHAPE is the brand name of the 3D business unit spun off from Roland DG with the core mission: "make innovation, make life better." DGSHAPE delivers digital technologies that bring ideas to life, revolutionize business processes, and shape a better future. Our goal is to fuse human creativity with digital workflows to provide exceptional value across multiple endeavors, from individual craftsmanship to manufacturing, healthcare and beyond.

Roland DG reserves the right to make changes in specifications, materials or accessories without notice. Actual device output may vary. For optimum output quality, periodic maintenance to critical components may be required. Please contact your Roland DG dealer for details. No guarantee or warranty is implied other than expressly stated. Roland DG shall not be liable for any incidental or consequential damages, whether foreseeable or not, caused by defects in such products. All trademarks are the property of their respective owners. Three-dimensional shapes may be protected under copyright. Reproduction or use of copyrighted material is governed by local, national, and international laws. Customers are responsible for observing all applicable laws and are liable for any infringement. Roland DG Corporation has licensed the MMP technology from the TPL Group.



AUTHORIZED DEALER:

Printed in Japan. RDG-416108599 17 FEB C-3 D-S

www.rolanddg.com



DENTAL 3D PRINTER
DWP-80S

by Roland

Denture Fabrication Workflow



Superior quality to transform the fabrication process

By rigorously analyzing the precision and fit required for digital dentures, DWP-80S intelligently determines how dentures are printed and then chooses the ideal number and layout of support points while adjusting for material shrinkage factors. Dental components that previously required an advanced level of skill can now be made easily by anyone to streamline the denture fabrication process.



Comprehensive support network for customer peace of mind

A comprehensive support network provides customers with peace of mind when using Roland DG products. In addition to online or telephone assistance, Roland DG also offers educational seminars aimed at increasing customers' familiarity and confidence with products and services. Service engineers are also available worldwide to assist customers with any questions they may have.



EASE MEETS PRECISION

Advanced 3D Technology for Denture Creation

Since launching its first DWX mill for precision milling of dental prosthetics in 2010, Roland DG quickly became a leading manufacturer in the dental industry, helping to digitalize the workflow at dental labs around the world. Now, by harnessing and applying the digital fabrication technologies that it has fine-tuned over three decades, Roland DG has developed the new DWP-80S dental 3D printer exclusively to assist in the production of dentures. The DWP-80S provides a remarkably simple solution for precision 3D printing of custom trays, base plates and frameworks required for dentures. Built to produce the level of quality demanded by industry professionals, the new printer is designed to make denture fabrication easier than previously possible.

DWP-80S

DENTAL 3D PRINTER

Projector system for making multiple components simultaneously

A proprietary projector lens design cures the new resin with UV light emitted by the projector to form precise denture applications of various shapes and sizes. The 80 mm square work area is ideal for allowing multiple custom trays, base plates and frameworks to be printed simultaneously.

* Approximate number of simultaneously printed components: custom trays – up to 3, base plates – up to 4, frameworks – up to 4 (quantities may vary depending on the size of components).

