

Digital Dental · Confident Smile



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Riton 3D



Smart Chairside · Instant Smiles

Simplified Workflows · Faster Turnaround · Elevated Care



RXDent-L130 Ultra

The RXDent-L130 Ultra is a high-precision desktop LCD 3D printer engineered specifically for chairside immediate restorations, digital clinics, and dental laboratories. Featuring a 34 μm XY resolution paired with a 385 nm Dental-Optimized Uniform Light Source System, it seamlessly supports a wide range of applications—from study models and definitive restorations to surgical guides—empowering clinics to build an efficient, in-house digital production ecosystem.



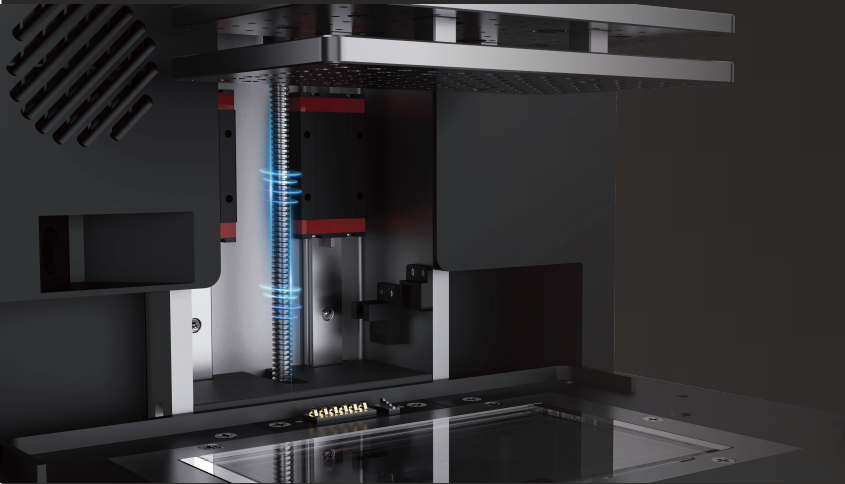
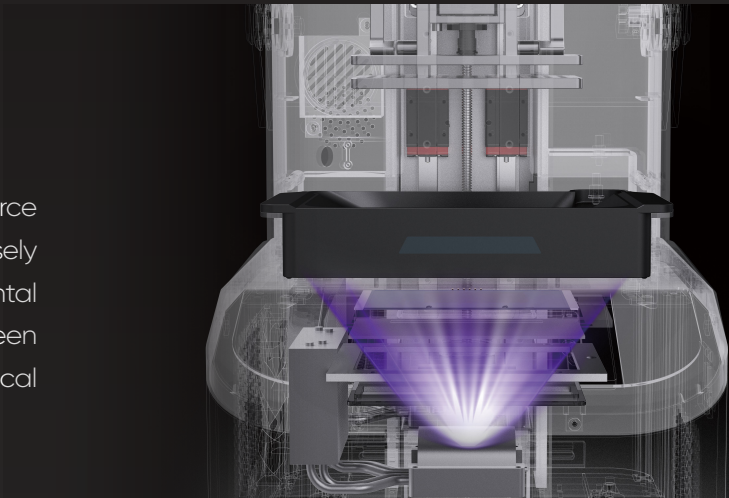
Technical Specifications

Model	RXDent-L130 Ultra	Printing Speed	1–8 s/layer
Projection Technology	LCD	Touchscreen	5-inch HD Color Touchscreen
Light Source Wavelength	385 nm	Connectivity	Wi-Fi / USB
XY Resolution	3840 x 2400	Voltage	100–240 V 50/60 Hz
XY Accuracy	34 μm	Power	300 W
Layer Thickness	0.01–0.2 mm	Dimensions (W x D x H)	320 x 420 x 500 mm
Molding Size (Large Vat) (x x y x z)	130 x 80 x 110 mm	Net Weight	20 kg
Molding Size (Small Vat) (x x y x z)	60 x 60 x 110 mm	Supported Languages	Multilingual



385 nm Dental-Dedicated Uniform Light Engine

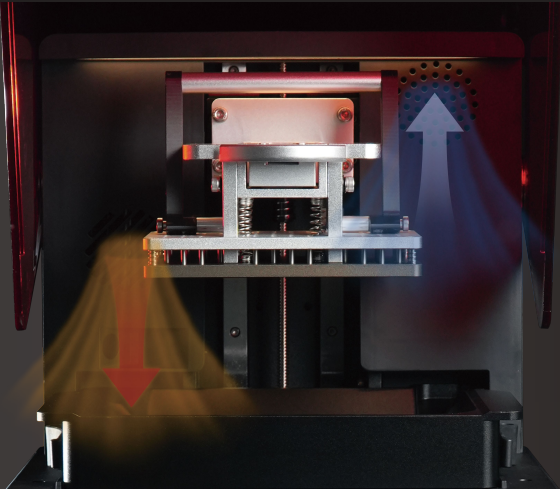
Featuring a high-energy 385 nm UV light source with uniform distribution, the system is precisely matched to the curing characteristics of dental photopolymer resins, ensuring consistent full-screen exposure, accurately reproducing fine anatomical details and supporting precise restoration fit.



High-Rigidity Closed-Loop Z-Axis Motion System

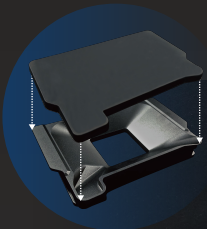
Equipped with a precision ball screw and closed-loop stepper motor control system, the Z-axis achieves smooth micron-level movement, effectively reducing layer lines while enhancing surface quality and printing consistency.

Intelligent Temperature Management & Dual-Size Resin Vats



30°C Constant-Temperature Printing Environment

An integrated intelligent temperature control and air filtration system maintains a stable 30°C printing environment, reducing the flow resistance of high-viscosity dental resins and improving printing stability as well as overall print success rates.



Dual Resin Vat Configuration

Equipped with a 130 × 80 mm large resin vat and a 60 × 60 mm small resin vat. A single dedicated cover is compatible with both vats, allowing remaining resin to be stored directly in the vat and reducing material waste. Flexible vat selection improves material efficiency for different applications.

Efficient Digital Workflow



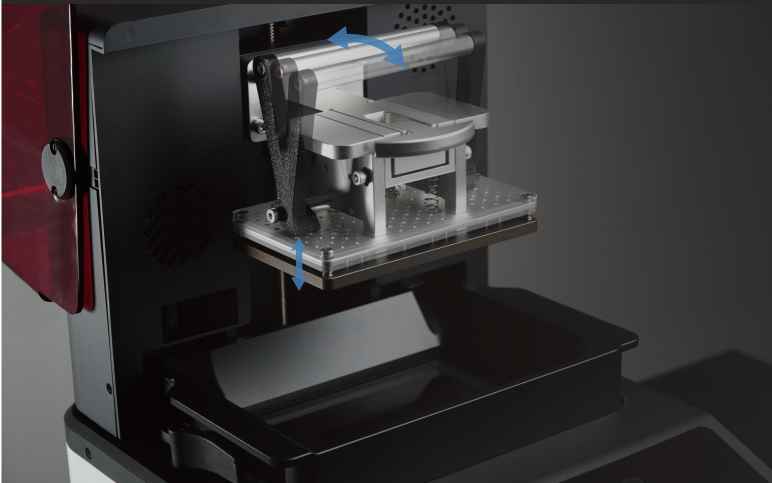
Intuitive Operation & Seamless Digital Workflow Integration

A 5-inch HD color touchscreen features a multi-lingual graphical user interface, with Wi-Fi wireless connectivity and USB connectivity.



Spring-Assisted Leveling & Quick-Release Build Platform

A modular two-piece build platform with an easy leveling design helps reduce the risk of part warping or lifting during part removal. Fast and efficient part removal and cleaning improve overall chairside workflow efficiency.



RXDent-C260 / High-Power Resin Curing Unit



Post-curing is a critical step in determining the final physical properties and biocompatibility of 3D-printed restorations. The RXDent-C260 is specifically designed for deep photo-crosslinking, delivering enhanced mechanical strength and dimensional stability.

- **260W High-Power Deep Curing:**
High-intensity light ensures deep photo-crosslinking for improved flexural strength.
- **360° Uniform Irradiation:**
An integrated rotating platform reduces shadowed areas, delivering consistent curing across the entire restoration.
- **Long-Life, Stable Light Source:**
Maintains consistent light output over extended periods of frequent operation, ensuring reliable curing performance.
- **One-Touch Intelligent Operation:**
Preset curing programs simplify clinical procedures.

Performance Enhancement After Post-Curing



Up to 50% improvement in mechanical strength after post-curing



Excellent dimensional stability



Low water absorption with enhanced stain resistance



Outstanding biocompatibility

Dimensions (W x D x H)	300 x 280 x 350 mm	Net Weight	10 kg
Wavelength	365-420 nm	Packaging Dimensions (W x D x H)	330 x 360 x 410 mm
Light Source Power	260 W	Rated Voltage	100-240 V 50/60 Hz

RXDent-W150 / Ultrasonic Cleaner



- **Powerful Deep Cleaning:** Ultrasonic cavitation thoroughly removes uncured resin from intricate geometries and narrow gaps.
- **Full Stainless Steel Construction:** Both the tank and housing are constructed from corrosion-resistant stainless steel for long-term durability.

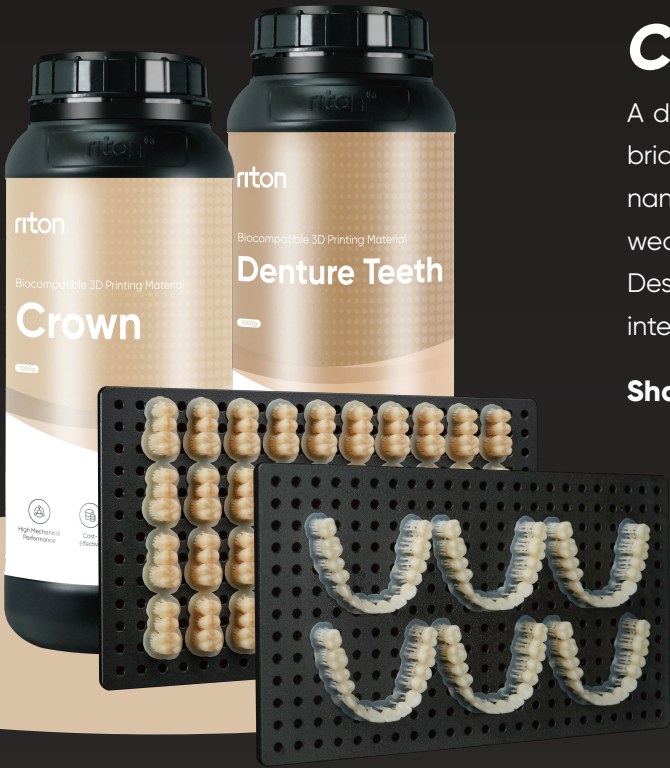
Capacity	3.2 L	Net Weight	10 kg
Power	150 W	Rated Voltage	110V / 220 V
Tank Dimensions (W x D x H)	240 x 135 x 100 mm	Dimensions (W x D x H)	268 x 165 x 230 mm

RXDent-H500 / Constant-Temperature Hot Air Drying Oven



- A built-in forced-air temperature control system minimizes internal stress during processing, while heat treatment enhances the final strength and chemical stability of dentures.

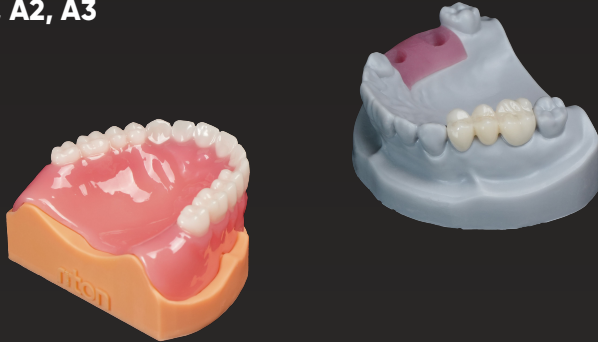
Capacity	16 L	Net Weight	15 kg
Temperature Fluctuation	±2°C	Dimensions (W x D x H)	510 x 380 x 410 mm
Power	500 W	Rated Voltage	110V / 220 V
Internal Chamber Size (W x D x H)	250 x 250 x 250 mm		



Crown/Denture Teeth / Model T1.0

A dental light-curing resin developed for the fabrication of crowns, bridges, and removable denture teeth. Formulated with 15% nano-ceramic filler, it offers balanced mechanical performance and wear resistance, together with a natural tooth-like appearance. Designed for compatibility with denture base resin to support integrated restoration workflows.

Shades: A1, A2, A3



High Mechanical Performance



Cost-Effective



Fast Printing



Easy to Clean

Properties	Unit	Standard	Result
Flexural Strength	MPa	ASTM D790	90-110
Flexural Modulus	MPa	ASTM D790	2350-2550
Notched Impact Strength	J/m	ASTM D256	32-38
Water Absorption	%	ASTM D570	≤1.3
Hardness	Shore D	ASTM D2240	≥85
Viscosity	mPa.s	ASTM D2393	2000-3000



Crown Bridge / Model T2.0

A dental light-curing resin developed for the fabrication of crowns and bridges. Formulated with up to 55% nano-ceramic filler, it combines high hardness and strength with wear resistance and X-ray radiopacity. The material is designed for aesthetic, stain-resistant restorations with biocompatibility suitable for intended clinical applications..

Shades: A1, A2, A3



High Hardness & Strength



Excellent Stain Resistance

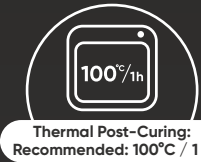


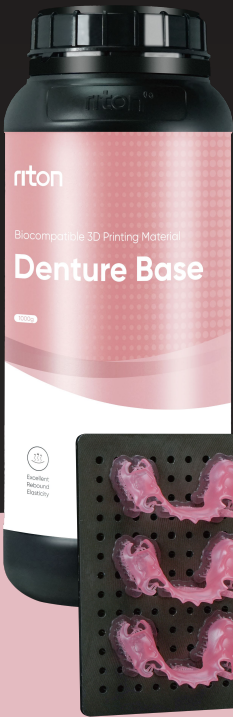
Biocompatible & Odorless



X-Ray Radiopaque

Properties	Unit	Standard	Result
Flexural Strength	MPa	ASTM D790	120-150
Flexural Modulus	MPa	ASTM D790	2600-3100
Notched Impact Strength	J/m	ASTM D256	30-40
Water Absorption	%	ASTM D570	≤1.3
Hardness	Shore D	ASTM D2240	≥85
Viscosity	mPa.s	ASTM D2393	2500-3000

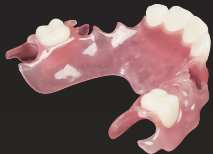




Denture Base / Model F1.0

Specially formulated for flexible partial denture bases. Offers outstanding elastic recovery, high fatigue resistance, and low water sorption. Ensures precise seating and patient comfort with dynamic pink translucency.

Shade: Translucent Pink



Excellent Resilience



High Fatigue Strength



Excellent Fit



True-To-Life Color

Properties	Unit	Standard	Result
Flexural Strength	MPa	ASTM D790	20-28
Flexural Modulus	MPa	ASTM D790	630-740
Notched Impact Strength	J/m	ASTM D256	35-40
Water Absorption	%	ASTM D570	≤1.3
Hardness	Shore D	ASTM D2240	≥40
Viscosity	mPa.s	ASTM D2393	2000-3000



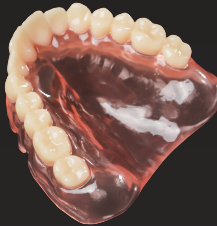
Thermal Post-Curing:
Required: 100°C / 1 h



Denture Base / Model D1.0

Designed for full denture bases requiring exceptional rigidity and structural stability. Features high tensile and impact resistance to prevent fracture under heavy occlusal loads. Polishes easily to a natural high-gloss gingival finish.

Shade: Pink



Excellent
Mechanical Performance



Biocompatibility



Excellent Adsorption



Excellent
Dimensional Stability

Properties	Unit	Standard	Result
Flexural Strength	MPa	ASTM D790	66-78
Flexural Modulus	MPa	ASTM D790	2000-2200
Notched Impact Strength	J/m	ASTM D256	20-24
Water Absorption	%	ASTM D570	≤1.3
Hardness	Shore D	ASTM D2240	≥81
Viscosity	mPa.s	ASTM D2393	400-700



Thermal Post-Curing:
Recommended: 100°C / 1 h



Surgical Guide / Model SG1.0

High-precision, biocompatible resin for targeted dental implant surgical guides. Exhibits high optical clarity, dimensional stability, and resistance to yellowing. Formulated to withstand standard sterilization protocols.

Shade: Transparent



Excellent Mechanical Performance



Biocompatibility



High-Temperature Sterilization



Fast Molding Speed

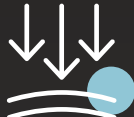
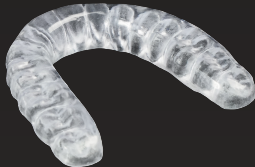
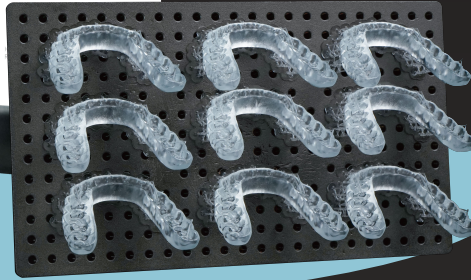
Properties	Unit	Standard	Result
Flexural Strength	MPa	ASTM D790	50-60
Flexural Modulus	MPa	ASTM D790	1260-1300
Notched Impact Strength	J/m	ASTM D256	20-25
Water Absorption	%	ASTM D570	≤1.2
Hardness	Shore D	ASTM D2240	≥80
Viscosity	mPa.s	ASTM D2393	150-300



Splint / Model HS1.0

Rigid photopolymer material for hard occlusal splints, nightguards, and bite retainers. Combines high flexural strength with superior wear resistance, providing comfortable, durable protection against bruxism.

Shade: Transparent



High Strength



High Wear Resistance



High Transparency



Biocompatibility

Properties	Unit	Standard	Result
Flexural Strength	MPa	ASTM D790	80-90
Flexural Modulus	MPa	ASTM D790	1900-2000
Notched Impact Strength	J/m	ASTM D256	20-22
Water Absorption	%	ASTM D570	≤1.3
Hardness	Shore D	ASTM D2240	≥82
Viscosity	mPa.s	ASTM D2393	420-510



Thermal Post-Curing:
Recommended: 100°C / 1 h



Glossy Coat Soft

Designed specifically for soft dental restorations such as crowns and flexible dentures produced with photopolymer 3D printing – enhances surface gloss and aesthetics while providing stain resistance and excellent biocompatibility.

- **Instant Gloss Enhancement:**
Reduces tedious manual polishing steps, delivering a high-gloss finish quickly and efficiently.
- **Dynamic Flexibility:**
Seamlessly bends under masticatory stress, preventing surface cracking or peeling.
- **Stain-Resistant Protection:**
Seals micro-porosity to resist discoloration caused by plaque accumulation and oral fluids.



Glossy Coat Hard

Designed specifically for hard dental restorations such as crowns, full dentures, and fixed bridges produced with photopolymer 3D printing – enhances surface gloss and aesthetics while providing stain resistance and excellent biocompatibility.

- **Instant Gloss Enhancement:**
Reduces tedious manual polishing steps, delivering a high-gloss finish quickly and efficiently.
- **Rigid and Dense:**
Maintains structural integrity under occlusal forces, resisting framework fracture, deformation, and collapse.
- **Stain-Resistant Protection:**
Seals micro-porosity to resist discoloration caused by plaque accumulation and oral fluids.



Glossy Coat DA

Designed for bonding photopolymer-printed crowns and denture bases, suitable for both partial and full dentures, providing strong, secure adhesion with rapid curing.

- **Superior Integration:**
Excellent adhesion and corrosion resistance ensure durable, long-lasting bonds, significantly reducing the risk of tooth detachment.
- **Precise Seating:**
Low-viscosity, highly flowable formula enables fine micromechanical interlocking for an intimate, high-precision fit.



Glossy Coat GUM

Model GCG1.0 is a dental-specialized photopolymer material designed for soft-tissue simulation in fixed bridge applications. It cures rapidly, bonds tightly to the restoration margin, and resists dislodgement.

Shades: Pink, Deep Pink, Light Pink

- **Rich, Lifelike Coloration**
- **Simple to Handle**
- **High Adaptation**
- **Biocompatibility**