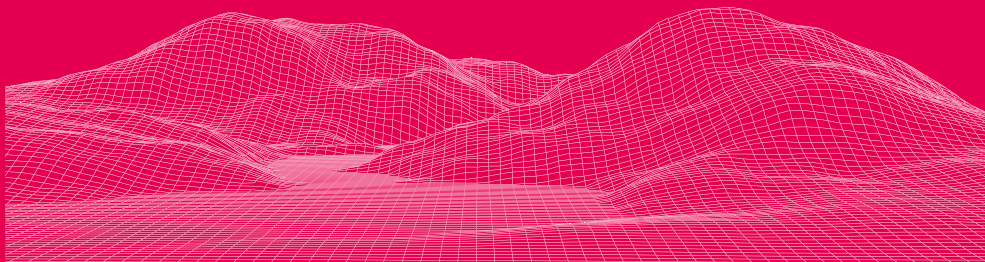**phrozen**

2020

Better
Than
You
Envisioned

3D
PRINTER
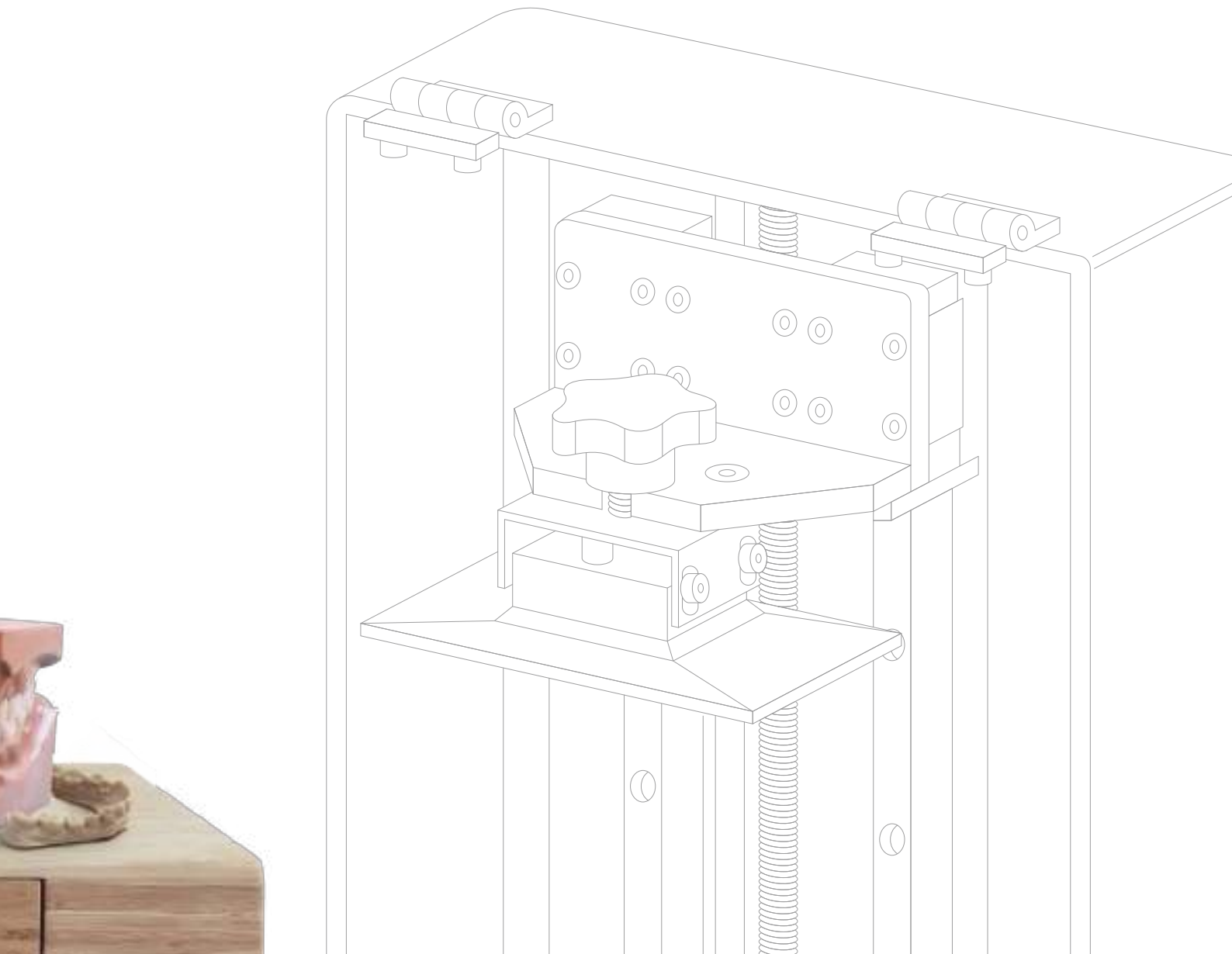
P R O D U C T   C A T A L O G

Phrozen offers professional consumer-friendly 3D printers for industrial applications, medical, and personal use.
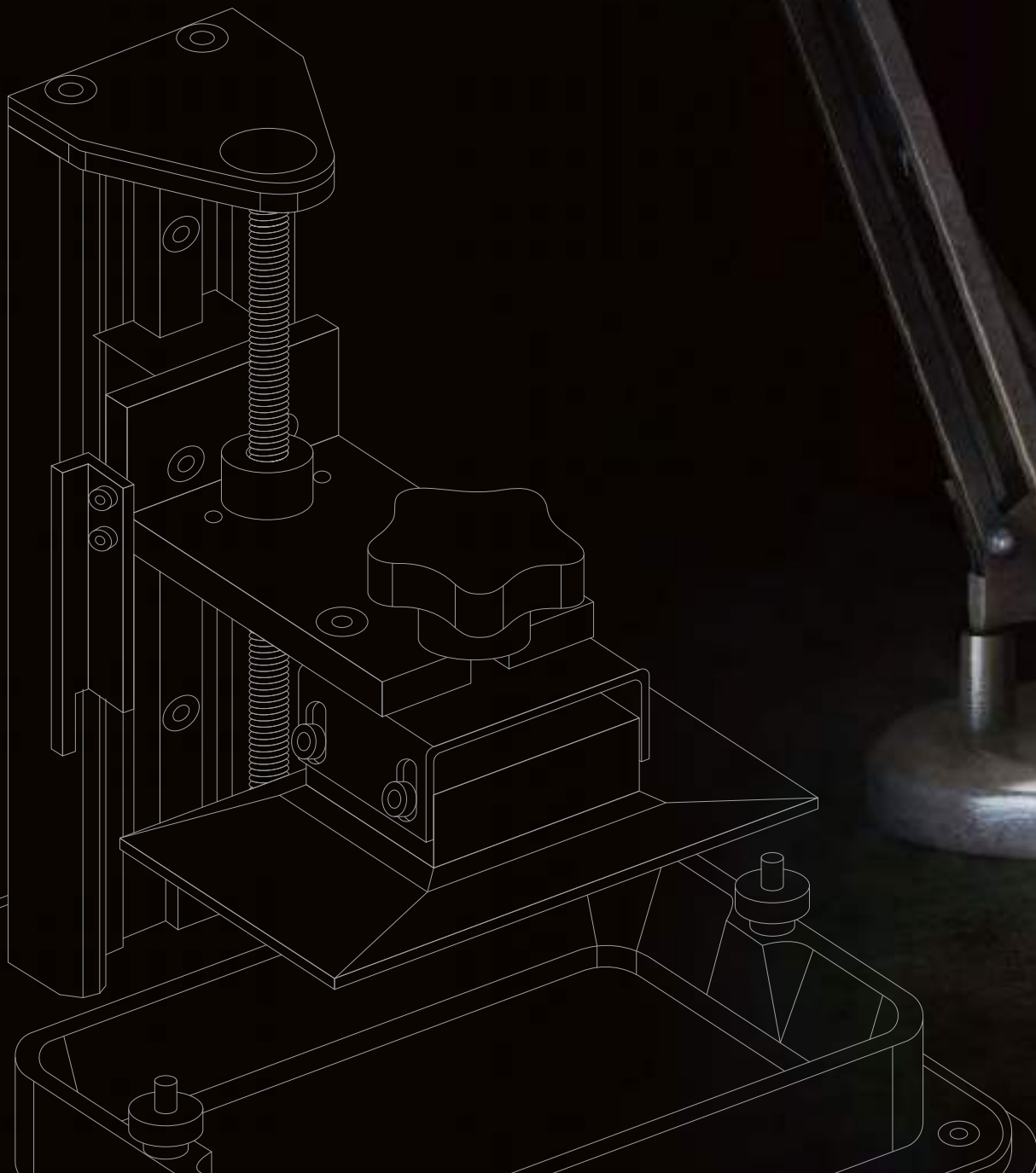
Our printers print with precision and produce high-quality 3D models with attention to detail.

Founded in 2016, Phrozen began with rigorous research and development to be an industry leader and offer customers the best value on the market.

For more information, please visit:
phrozen3d.com

Sonic Mini

Z Resolution
10μm

XY Resolution
63μm

Average Printing Speed
80mm/hr

Print Volume
12x**6.8**x**13**cm

Sonic Mini 4K

Z Resolution
10μm

XY Resolution
35μm

Average Printing Speed
80mm/hr

Print Volume
13.4x**7.5**x**13**cm

Sonic 4K

Z Resolution
10μm

XY Resolution
35μm

Average Printing Speed
90mm/hr

Print Volume
13.4x**7.5**x**20**cm

Sonic XL 4K

Z Resolution
10μm

XY Resolution
50μm

Average Printing Speed
90mm/hr

Print Volume
19x**12**x**20**cm

Shuffle XL Lite

Z Resolution
10μm

XY Resolution
75μm

Average Printing Speed
20mm/hr

Print Volume
19ₓ **12**ₓ**20**cm

Transform

Z Resolution
10μm

XY Resolution
76μm

Average Printing Speed
Standard **10** mm/hr
Fast   **40** mm/hr
Print Volume
29.2ₓ**16.5**ₓ **40**cm

Sonic Mini

For Beginners

Hobby
General Models

Sonic Mini 4K

For Beginners

Hobby
General Models
Fine Models

General Info

Technology	LCD
Weight	5 kg
Size	25 x 25 x 33 cm

Hardware - Optical Engine

LCD Specification	5.5" 1080P Mono-LCD
Backlight Unit	ParaLED ® Matrix 2.0
LED Wavelength	405 nm

Hardware - Others

Front Display	2.8" Touch Panel
Cooling	No
USB Port	1
Ethernet Port	No
Wi-Fi	No
Input Voltage	100-240V
System Power	30W
Support Software	ChiTu Slicer
OS	Phrozen® OS
Compatible File Format	.PHZ

Printing Specifications

XY Resolution	63 μm
Z Resolution	10 μm
Average Printing Speed	80 mm / hr
Print Volume	12 x 6.8 x 13 cm

Hardware - Z-axis

Rail	Single Linear Rail
Screw	Lead Screw
Moving Sensor	Optical Switch

General Info

Technology	LCD
Weight	5 kg
Size	25 x 25 x 33 cm

Hardware - Optical Engine

LCD Specification	6.1" 4K Mono-LCD
Backlight Unit	ParaLED ® Matrix 2.0
LED Wavelength	405 nm

Hardware - Others

Front Display	2.8" Touch Panel
Cooling	No
USB Port	1
Ethernet Port	No
Wi-Fi	No
Input Voltage	100-240V
System Power	40W
Support Software	Chitu Slicer
OS	Phrozen® OS
Compatible File Format	.CTB

Printing Specifications

XY Resolution	35 μm
Z Resolution	10 μm
Average Printing Speed	80 mm / hr
Print Volume	13.4 x 7.5 x 13 cm

Hardware - Z-axis

Rail	Single Linear Rail
Screw	Lead Screw
Moving Sensor	Optical Switch

Sonic 4K

[For General Users]

General Models
Fine Models
Jewelry
Digital Dentistry
Industrial Production

Sonic XL 4K

[For General Users]

General Models
Large Objects
Fine Models
Jewelry
Digital Dentistry
Industrial Production

General Info

Technology	LCD
Weight	14.5 kg
Size	23 x 26 x 46 cm

Hardware - Optical Engine

LCD Specification	6.1" 4K Mono-LCD
Backlight Unit	ParaLED ® Matrix 3.0
LED Wavelength	405 nm
	*Applicable for selected 385 material

Hardware - Others

Front Display	5" Touch Panel
Cooling	1 Cooling Fan
USB Port	1
Ethernet Port	1
Wi-Fi	No
Input Voltage	100-240V
System Power	50W
Support Software	Phrozen® 3D
OS	Phrozen® OS
Compatible File Format	.CTB

Printing Specifications

XY Resolution	35 μm
Z Resolution	10 μm
Average Printing Speed	90 mm / hr
Print Volume	13.4 x 7.5 x 20 cm

Hardware - Z-axis

Rail	Dual Linear Rails
Screw	Lead Screw
Moving Sensor	Optical Switch

General Info

Technology	LCD
Weight	19.5 kg
Size	33 x 29 x 47 cm

Hardware - Optical Engine

LCD Specification	8.9" 4K Mono LCD
Backlight Unit	ParaLED ® Matrix 3.0
LED Wavelength	405 nm
	*Applicable for selected 385 material

Hardware - Others

Front Display	5" IPS Touch Panel
Cooling	4 Cooling Fans
USB Port	2
Ethernet Port	1
Wi-Fi	Yes
Input Voltage	100-240V
System Power	100W
Support Software	Phrozen 3D
OS	Phrozen® OS
Compatible File Format	.ZIP

Printing Specifications

XY Resolution	50 μm
Z Resolution	10 μm
Average Printing Speed	90 mm / hr
Print Volume	19 x 12 x 20 cm

Hardware - Z-axis

Rail	Dual Linear Rails
Screw	Ball Screw
Moving Sensor	Optical Switch

Shuffle XL Lite

For Professional Users

Hobby
General Models
Large Objects
Industrial Production

Transform

For Professional Users

Hobby
General Models
Digital Dentistry
Large Objects
Industrial Production

General Info

Technology	LCD
Weight	11 kg
Size	29 x 29 x 47 cm

Hardware - Optical Engine

LCD Specification	8.9" 2K Color LCD
Backlight Unit	UV Array Matrix
LED Wavelength	405 nm

Hardware - Others

Front Display	3.5"Touch Panel
Cooling	2 Cooling Fans
USB Port	1
Ethernet Port	1
Wi-Fi	No
Input Voltage	100-240V
System Power	100W
Support Software	Chitubox
OS	Phrozen® OS
Compatible File Format	.cbddlp

Printing Specifications

XY Resolution	75 μm
Z Resolution	10 μm
Average Printing Speed	20 mm / hr
Print Volume	19 x 12 x 20 cm

Hardware - Z-axis

Rail	Dual Linear Rails
Screw	Lead Screw
Moving Sensor	Optical Switch

General Info

Technology	LCD
Weight	28 kg
Size	38 x 35 x 61 cm

Hardware - Optical Engine

LCD Specification	Fast：13.3" 4K Mono LCD Standard：13.3" 4K Color LCD
Backlight Unit	ParaLED® Matrix 2.0
LED Wavelength	405 nm

Hardware - Others

Front Display	5"IPS Touch Panel
Cooling	4 Cooling Fans
USB Port	2
Ethernet Port	1
Wi-Fi	Yes
Input Voltage	100-240V
System Power	200W
Support Software	PZ Slicer
OS	Phrozen® OS
Compatible File Format	.ZIP

Printing Specifications

XY Resolution	76 μm
Z Resolution	10 μm
Average Printing Speed	Fast：40 mm / hr Standard：10 mm / hr
Print Volume	29.2 x 16.5 x 40 cm

Hardware - Z-axis

Rail	Dual Linear Rails
Screw	Ball Screw
Moving Sensor	Optical Switch

01 Dentistry

02 Jewelry

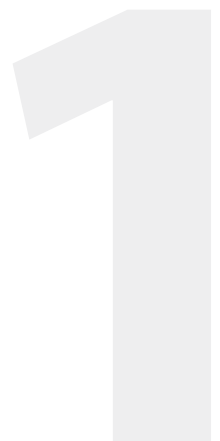**03** Model

04 Production

Dentistry

Fast. Efficient. Reliable. That's what defines Phrozen 3D printers.

Our 3D printers are capable of printing out precise 3D dental teeth molds so that you don't have to waste precious time testing out the bite and fit of dental molds again and again.

One customer explained, "Phrozen 3D printers allow me to print the exact replica of the dental teeth molds I need. The bite and the fit of the teeth molds are always perfect. Now, I can just design new sets of teeth while printing multiple molds at the same time. My productivity has definitely increased since using Phrozen 3D printers."

1

2

Jewelry

Need a one-of-a-kind, intricately crafted ring? Phrozen 3D printers are here for you. Our printers capture all the fine details of your custom-designed jewelry and prints out an exact replica. We can take your complex designs and bring it to life.

A customer said, "Even if you're the pickiest person in the world, Phrozen 3D printers have the ability to meet and exceed all of your expectations."

3

Model

To make a great model, you need to focus on the details, which is why you need Phrozen 3D printers.

Our printers allow you to create models of any size, shape, or style. You can use our printers to create artistically designed models with intricate designs as a way to express yourself and tell a story.

A customer remarked, "This technology is amazing. Phrozen 3D printers allow me to create models of different sizes, with no restriction whatsoever. No matter how complicated my designs are, Phrozen always allows me to print everything at the same time."

4

Production

Phrozen 3D printers are perfect for printing industrial models as our printers print with high precision and yet are highly affordable.

To ensure our users have the best experience while using our printers, we keep testing and improving our products with an ambitious goal to create the perfect printer for everyone.

A customer said, "Phrozen's 3D printers have drastically reduced our production time, allowing us to create numerous 3D models in a fraction of the time required by other 3D printers."

RESINS

In a sea of different resin collections, we highly recommend Phrozen's Water-washable resins.

Our resins are tough and durable which is perfect for printing 3D action figure models or product prototypes.

Wax-like Castable

Castable Resin

- ● Violet
- ● Green

Aqua

Model Resin

- ● Green
- ● Blue
- ● Gray 4K

Water-washable

Standard Resin

- ● Black
- ● Gray

ABS-like

Standard Resin

- ● Matte Gray
- ○ Greamy White

Beige-Flex

Standard Resin

- ● Beige

SC-801 Clear

Standard Resin

- ○ Transparent

Low Irritation

Standard Resin

- ● Beige

Rock-Black Stiff

Engineering Resin

- ● Black

Nylon-Green Tough

Tough Resin

- ● Nylon-Green

Phrozen's resins produce 3D models with high precision and low shrinkage during the entire process, allowing you to print 3D models that never change in shape.

A customer explained, "Phrozen's 3D printers allow us to create large, 3D models that are sturdy and reliable. Even as we left it to cure, the shape of the printed model did not change."

	ABS-like	Water-washable	Beige Flex	Low Irritation
	Standard Resin	Standard Resin	Standard Resin	Standard Resin
	⬤ Matte Gray ◯ Greamy White	⬤ Black ⬤ Gray	⬤ Beige	⬤ Beige
General				
Density	1.1 g/cm³	1.1 g/cm³	1.1 g/cm³	
Viscosity	67CPS	125CPS	540 CPS	498 CPS
Mechanical				
Elongation	3 %	24 %	26 %	
Tensile Strength(Break)	10 Mpa	12 Mpa	12 Mpa	82.35 Mpa
IZOD Impact Strength	1.44 KJ/m²	3.04 KJ/m²	5.3 KJ/m²	
Surface				
Water Contact Angle	60 degrees	50 degrees	30 degrees	
Surface Hardness	76 Shore D	77 Shore D	68 Shore D	84.65 Shore D

Wax-like Castable	**Rock-Black Stiff**	**Aqua**	**Nylon-Green Tough**	**SC-801 Clear**
Castable Resin	Engineering Resin	Model Resin	Tough Resin	Standard Resin
● Violet ● Dark Green	● Black	● Aqua Blue ● Aqua Green ● Aqua Gray 4K	● Nylon-Green	○ Transparent
1.04 g/cm³ 192 CPS	1.1 g/cm³ 119 CPS	1.12 g/cm³ 125 CPS	1.12 g/cm³ 125 CPS	1.1 g/cm³ 142 CPS
3 % 8 Mpa 1.91 KJ/m²	4 % 30 Mpa 2.68 KJ/m²	21 % 24 Mpa 1.81 KJ/m²	21 % 24 Mpa 1.81 KJ/m²	17 % 12 Mpa 2.68 KJ/m²
50 degrees 74 Shore D	50 degrees 81 Shore D	55 degrees 86 Shore D	55 degrees 86 Shore D	55 degrees 70 Shore D

Printing

Accessories

 Printing Accessories

Phrozen® Cure UV Post - curing Lamp (V2)

General

Chamber Size	17.5 x 14 x 18.5 cm
Product Size	21.5 x 19.5 x 28.5 cm
Product Weight	4.2kg
System Power	60W
Power Input	AC100-240 V
	50-60Hz
Timer	10 - 590 min
Light Power	14400 mw / cm^2
High Intensity UV Light	390 - 410 nm

Phrozen® Cure UV Post - curing Lamp

General

Chamber Size	29.5 x 29.5 x 45 cm
Product Size	33 x 33 x 60 cm
Product Weight	11kg
System Power	150W
Power Input	AC100-240 V
	50-60Hz
Timer	10 - 590 min
Light Power	36000 mw / cm^2
High Intensity UV Light	390 - 410 nm

Ultra - sonic Cleaner

General

Chamber Size	14 x 13 x 9 cm
Product Size	18 x 16.5 x 24 cm
Product Weight	2.5kg
System Power	Ultra Sonic: 80W
	Heating: 100W
Power Input	AC100-120V 50-60Hz
Heating Function	20 - 80 deg C
Timer	1-30 min
Frequency	40 KHz