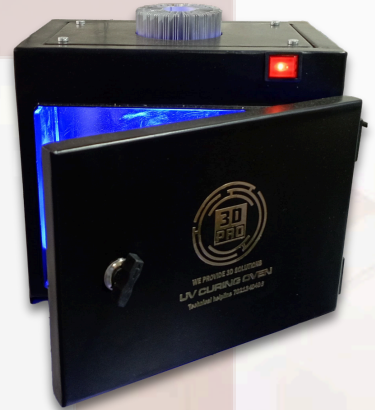


3DPRO MOST ECONOMICAL 3D PRINTING SOLUTION FOR JEWELLERY INDUSTRY



Exclusive Distributor for India



Firsttech Machine LLP

NEXT GENERATION TECHNOLOGY

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3DPRO SATURN 4 ULTRA 16K 3D PRINTER



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TECHNICAL SPECIFICATION DETAILS

Parameter	Details
Model	3dpro Saturn 4 Ultra 16K
Printing Technology	MSLA
LCD Screen	10-inch 16K Mono LCD
XY Resolution	14 × 19 μm (15120 × 6230)
Resin Tank	Smart Heating Tank
AI Camera	New AI Camera with Light
Supporting Material	Resin
Printing Speed	150 mm/h (Max)
Printing Size (L×W×H)	211.68 × 118.37 × 220 mm
Product Size (L×W×H)	327.4 × 329.2 × 548 mm
Machine Weight	16.1 kg
Gross Weight	20 kg
Package Size	68 × 47 × 47 cm
Leveling Method	Auto Leveling
Operation Interface	3.5-inch Touch Screen
Usage	3D Printer (Education/School)
Condition	New



3DPRO WASHING & CURING MACHINE-01



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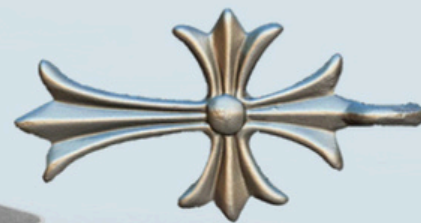
Technical Specification Details :

Parameter	Specification
Model	3DPRO-01
Functions	Dual-purpose machine: Washing + UV Curing
Wash Mode	Electromagnetic propeller with large-size sealed washing container
Washing Methods	(1) Wash with build platform directly(2) Wash with model in basket
Washing Container Size	190 × 154 × 200 mm
Washing Volume	2 L (approx.)
Curing Mode	360° specular-reflection rotating platform with double-row & double-band UV lamp beads
Curing Light Source	385 nm + 405 nm dual-band UV LEDs
Curing Platform Rotation	Automatic 360° rotation for uniform curing
Control Interface	LED HD touch button display
Timer Setting	Adjustable from 2 – 90 minutes
Speed Options (Washing)	3-gear adjustable speed (Fast / Standard / Slow)
Safety Feature	Auto-stop when machine cover removed
Machine Dimensions (L×W×H)	225 × 235 × 365 mm
Net Weight	4.8 kg
Power Supply	24 V / 1.6 A
Power Input	AC 100–240 V, 50/60 Hz

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3DPro Jewellery Scanner



Jewellery 3D scanner is tailor-made for scanning 5mm 80mm sized small objects to get their 3D models, such as jewellery, rings, gems, pendants, coins, miniatures, small industrial parts and so on .

Advantages:

Manufacturer supply directly

1. Full-automatic scanning
2. Easy to use
3. High Resolution and High Accuracy
4. Get 3D models quickly
5. Save designers precious design time
6. Affordable



"Exclusively distributed by Firsttech Machine LLP, your trusted partner for premium-quality 3D solutions."

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3DPro Jewellery Scanner



WE PROVIDE 3D SOLUTIONS



HARDWARE

Light resource

Light Raster:

Camera:

Voltage:

Scan speed:

SF Accuracy:

Light Area:

Resolution:

Data format:

PC Require:

Certification:

Scanner size:

Net weight/shipping weight:

Software:

Advantages:

Structure White

1280*1080

8MP *2

100-240V/60W

2S/image

<10um

80*60mm

0.06mm

AC/STL

Nvidia as main GPU; Intel CPU; Win7 (64) and higher

CE/FCC/WEEE/CNAS/ISO9001

20*25*38cm

2.83kg/5.42kg

Full-automatic Scanning

Scan small objects in high resolution, accuracy preference

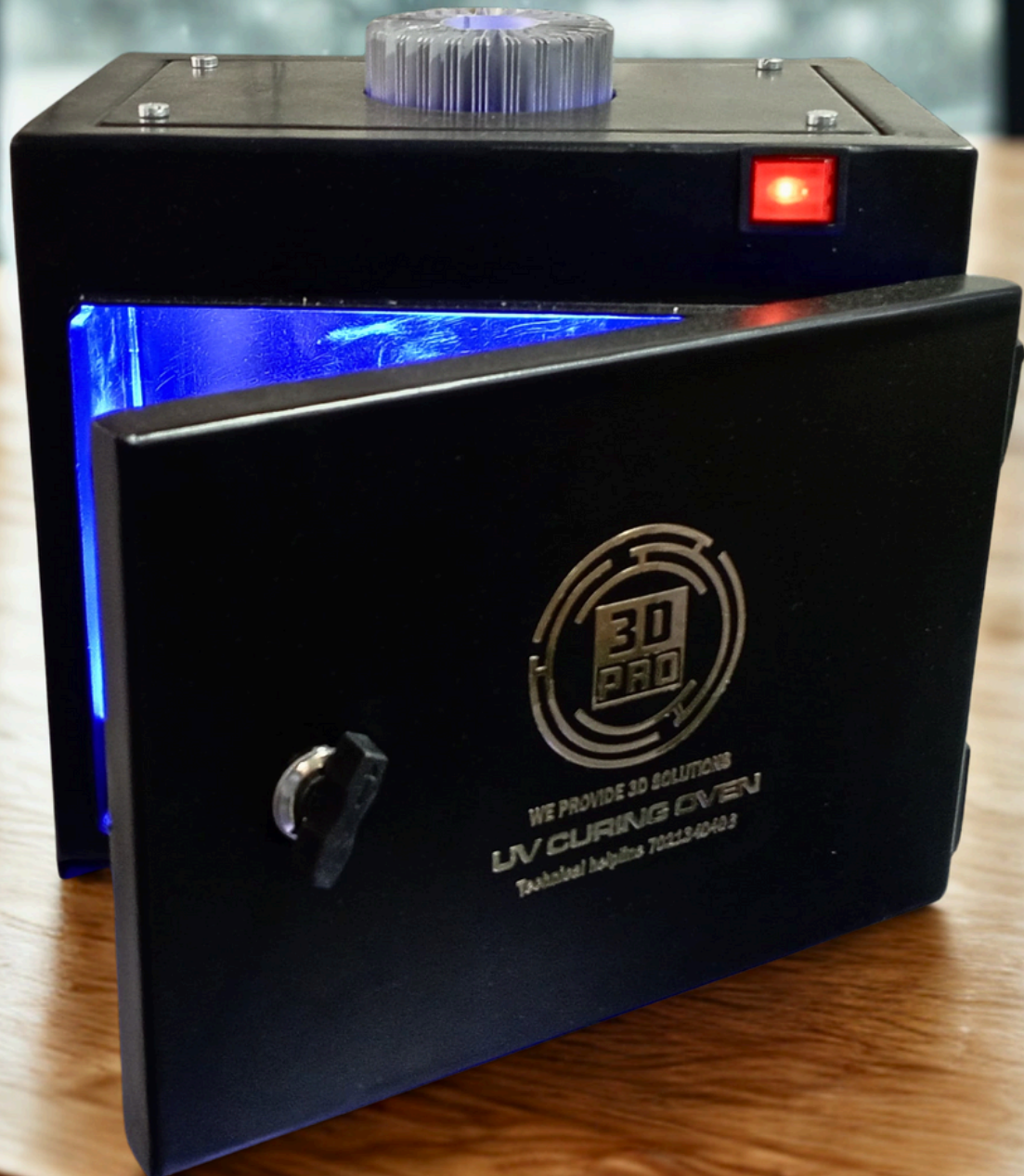


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3DPRO UV CURING OVEN



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3DPRO UV Curing Oven is designed for fast and optimal post-curing of 3D printed parts, developed with LEDs peaking at 405 nm. With mirror-finished, high-durability industrial UV walls and a heat sink for long life, the oven can be used continuously without interruption throughout the day.

FEATURES

Durable Stainless Steel Body:

The UV curing chamber is constructed entirely from stainless steel for long-lasting durability and corrosion resistance.

Safe and Insulated Design:

All accessible areas are carefully insulated, ensuring protection from electric current, heat, and UV light leakage for user safety.

Compact & Versatile:

Its compact footprint allows convenient placement and operation in virtually any workspace.

Fast & Efficient Curing:

Equipped with high-power 405 nm UV LEDs and reflective inner walls, the oven cures printed parts quickly — transforming them from soft prints to solid components within minutes.

CODE	UV OVEN
Outer Dimensions	25” × 20” × 18”
No. of LED	18
LED Power	18 W
LED Life	10,000 hrs
LED Wavelength	405 nm
Curing Time	2–10 min
Timer	—



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3DPRO DIGITAL ULTRASONIC CLEANER



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Technical Details :

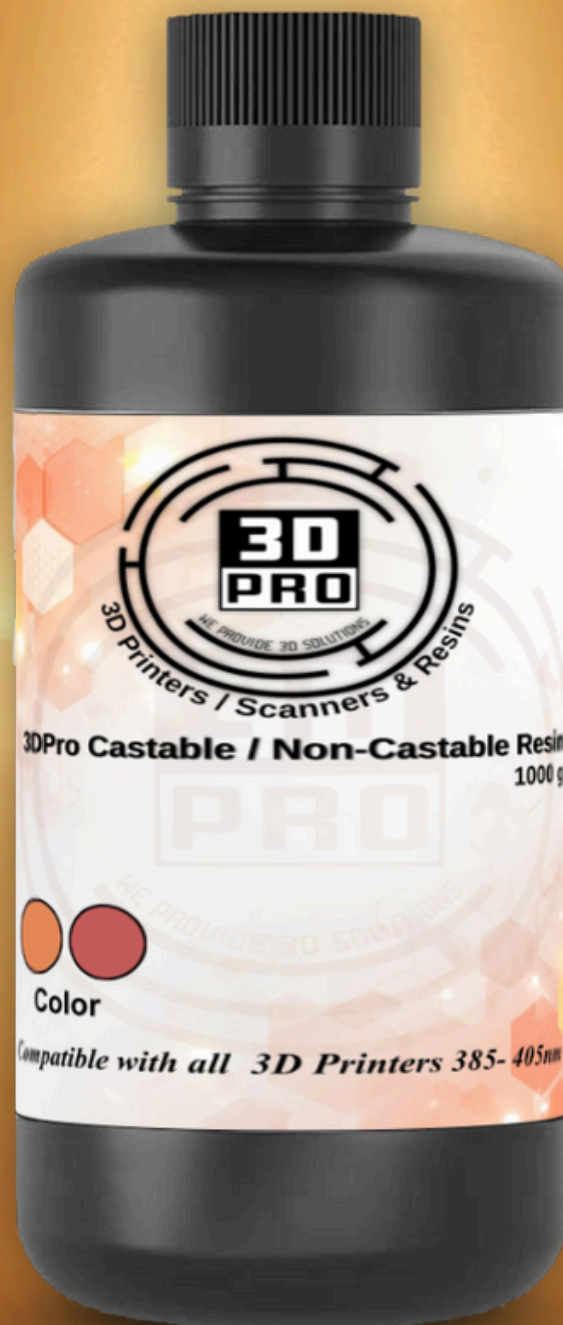
Parameter	Specification
Model No.	CD-4820
Product Name	Digital Ultrasonic Cleaner
Tank Capacity	2.5 L (2500 ml, usable water line 2100 ml)
Tank Size (L × W × H)	250 × 150 × 80 mm
Material (Tank)	Stainless Steel SUS304
Material (Body)	ABS 757 Plastic
Ultrasonic Frequency	35 kHz (35,000 Hz)
Rated Voltage & Frequency	AC 100–240 V, 50/60 Hz
Power Consumption	130 W (AC 100 V) / 160 W (AC 110–120 V) / 170 W (AC 220–240 V)
Timer Settings	90s / 180s / 280s / 380s / 480s
Control Type	Digital timer (5 cycles)
Applications	Vinyl records, watches, dental tools, jewelry, laboratory and household cleaning
Certifications	CE, ROHS, GS, PSE, CETL
Warranty	1 year
After-Sales Support	Free spare parts, OEM/ODM support
Country of Origin	Guangdong, China
Net Weight	2.5 kg
Gross Weight	3.0–3.3 kg
Product Box Size	340 × 255 × 225 mm (approx. 32 × 25 × 20 cm)
Plug Type	Varies by region (Other plugs available)



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3DPRO CASTABLE /NON-CASTABLE RESIN



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TECHNICAL DETAILS

Recommended Settings for 3DPRO Castable Resin

Layer Height	0.05 mm	
Bottom Layer Count	10	
Exposure Time	7.800 s	
Bottom Exposure Time	70.000 s	
Transition Layer Count	4	
Transition Type	Linear	
Transition Time Decrement	-	
Waiting Mode During Printing	Resting Time	
Light of Delay	-	
Rest Time Before Lift	0.500 s	
Rest Time After Lift	0.000 s	
Rest Time After Retract	1.000 s	
Bottom Lift Distance	2.000 mm	1.000 mm
Lifting Distance	2.000 mm	3.000 mm
Bottom Retract Distance	-	0.500 mm
Retract Distance	-	0.500 mm
Bottom Lift Speed	50.000 mm	250.000 mm
Lifting Speed	50.000 mm	250.000 mm
Bottom Retract Speed	250.000 mm	60.000 mm
Retract Speed	250.000 mm	60.000 mm

Recommended Settings for 3DPRO Non-Castable Resin

Printer Type	Bottom Exposure Time	Layer Exposure Time
LCD RGB	50–80 s	4–10 s
LCD Monochrome	25–70 s	2–8 s
DLP 3D Printer	20–50 s	1–6 s



3DPRO RESIN-CAST INVESTMENT CASTING POWDER



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Recommended Resin Casting Process

- **Resin Cleaning Process**

It is very Important to clean the Resin pieces properly after printing.

- **Cleaning method for RESIN**

- { IPA - Isopropyl Alcohol }

- 1st Beaker – Used (IPA) – 10 to 15 seconds – Blow Dry Air.
 - 2nd Beaker - Clean (IPA) – 10 to 20 seconds – Blow Dry Air.
 - 3rd Beaker - Fresh (IPA) – 10 to 15seconds – Blow Dry Air.

- { Post Curing }

- Resin must be CURED as per the instructions provided by the manufacturers.
 - If possible do UV curing for 2 to 4 minutes until resin color changes.

- { Investment Mixing Process }

Water & Powder Ratio should be {100:37}

- Water temperature need to maintain {18°C to 20°C}
 - Mixing in machine {4 Minutes}
 - Flask Pouring should be {1 to 1 ½ }
 - Flask vacuum with Vibration {3 Mintues}
 - Total investment process should be 7 to 8 minutes
 - Minimum 2 hours needed to dry the Flask, without disturbing the flask

- **Burnout Cycle**

- 150°C – 1 Hour Ramp
1 Hour. 40 Minutes Hold
 - 400°C – 1 Hour. 30 Minutes Ramp
1 Hour. 30 Minutes Hold
 - 620°C – 1 Hour. 30 Minutes Ramp
1 Hour. 30 Minutes Hold
 - 730°C – 1 Hour. 30 Minutes Ramp
1 Hour. 30 Minutes Hold
 - Before casting reverse the flask & blow with air, after that start the Casting Process



3DPRO-UV TORCH



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TECHNICAL DETAILS :

Specification	Details
Brand	3DPRO
Battery Type	Lithium Ion
Model Name / Number	3DPRO-UV Torch
Capacity	Up to 4999 mAh
Body Material	Aluminum
Lighting Type	LED
Bulb Type	LED
LED Light Source	UV LED 385 nm
Lighting Period	3 hrs
Usage / Application	Use for diamond & gemstone identification, crack detection, resin curing inspection, hallmark verification, and surface cleanliness checking.
Beam Distance	100 mtr
Size	4 Inches
Weight	150 gram
Working Voltage	3.7 Volt
Spot Range	100 mtr



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3DPro Most Economical 3D Printing Solution For Jewellery

In order to understand investment casting very well, we make this operation brochure of the whole casting process, be free to reach us if you have any query.



Preparation

Put the jobs in isopropanol a few mins, and slightly shake the jobs to clean away the resin.

Post cure the clean jobs if they are not hard enough.



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1. Wax tree

1.1 Remove unnecessary support before plant wax tree and rewash again.

1.2 After cleaning, make sprue with each job and build into a tree.

Notice : Simple jobs should be on top while complex job at downward.



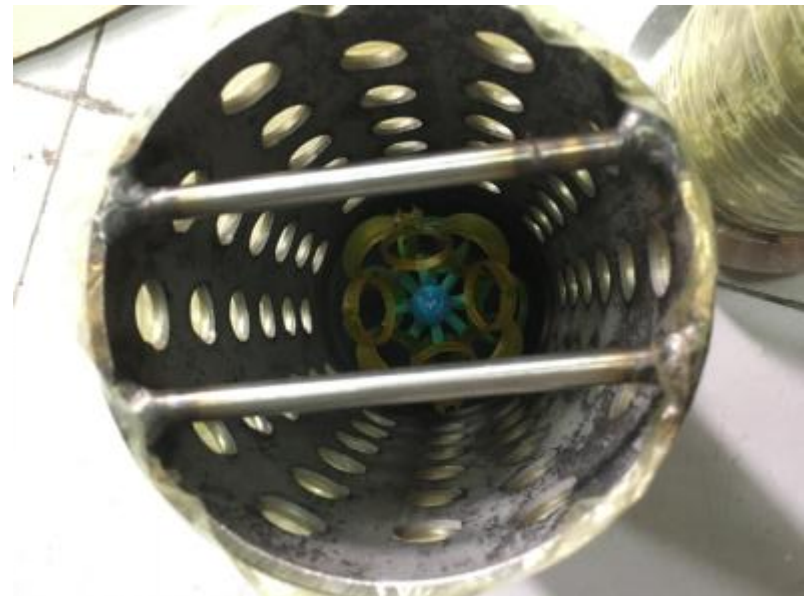
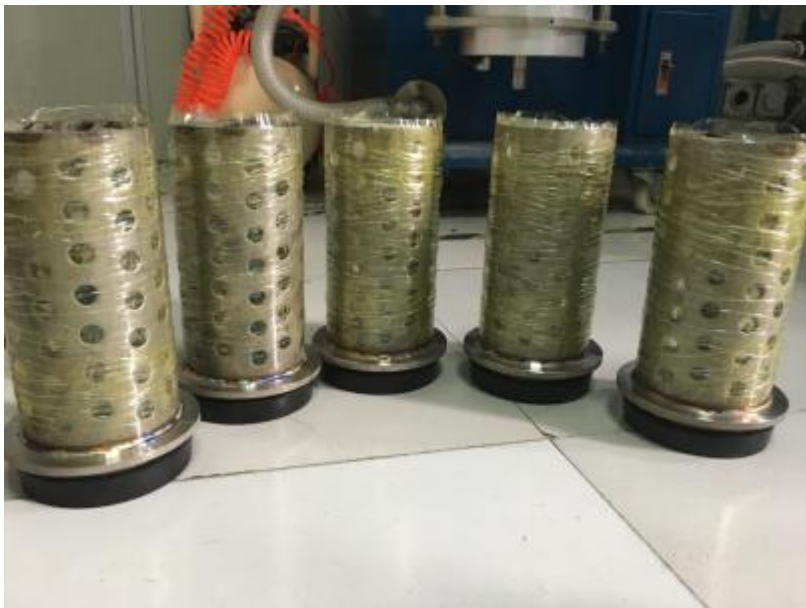


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2. Set up Flask

2.1 Wrap up the flask with packing tape, leave the top about 2-3mm longer than flask.

2.2 Put the wax tree into flask, keep the tree straight in the middle, the interspace between the flask and tree at least 5mm.





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3. *Mixing gypsum*

3.1 Use ratio powder and water 1kg:350-400ml (20 °C to 28 °C pure water)

3.2 Firstly pour half of water into vacuum mixer, then pour gypsum powder, and the rest of the water, should be mixed completely at once.

Notice: Recommend plasticast powder, or specially made for resin casting use purpose.





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4. Fill flask

4.1 This should be strictly controlled within 9 minutes, fill flask by vacuum mixer, wait for no bubble about 20-30 mins.

4.2 Set flask at room temperature for 3 hours, take off the packing paper once it's dried.





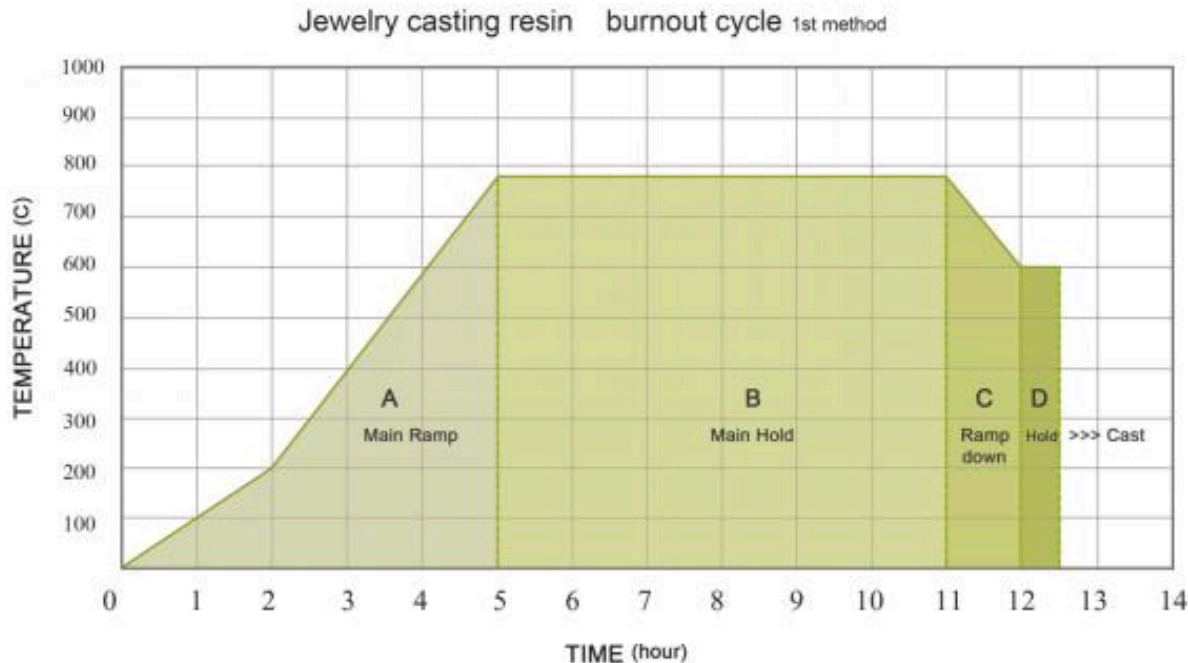
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5. Burnout cycle 1

The First Method:

A: Wax model start fall off, set the temperature two hours from 0 °C to 200 °C, then three hours from 200 °C to 780°C, ramp up speed should be adjusted according to number and volume of flask and thickness of jobs.

B: Keep at 780 °C for 6 hours to be gasified completely, the holding time should be adjusted according to number and volume of flask and thickness of jobs.





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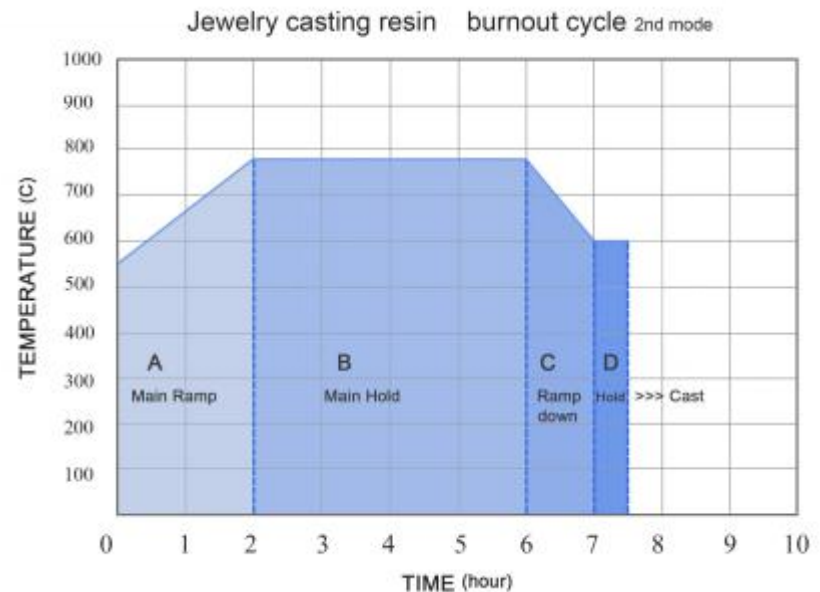
Burnout cycle 2

The Second Method:

A: Place flask in 500 °C, and set 2 hour for 780°C. Continuous casting brings high efficiency.

B: Hold for 4 hours at 780 °C, adjust the duration according to number and volume of flask and thickness of jobs.

Notice: Gypsum must suitable for plasticast.





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6. Casting

6.1 Ramp down to casting required temperature, and keep for half hour.

6.2 Use Casting machine to melt metal and then casting, natural cooling for 5 - 10 minutes.





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7. Cooling and cleaning

Water cooling flask , and clean with high press cleaning machine.





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You are welcome to visit our casting house if you have any casting problem, we offer casting skill training.





3DPro Most Economical 3D Printing Solution For Jewellery

Bellow are the Jewelry 3D resins, if you need other industrial photopolymer resin or customize resin, be free to reach us.

	DLP with mercury lamp	DLP with LED UV 405nm	LCD Printer 405nm	SLA Printer (FORM2)
Jewelry Casting Resin	UPIC-1000 (PIC100)	EPIC-1000 (Trans Yellow)	//	SPIC-1000 (Trans Yellow)
	UPIC-2000ST(EPIC green)	EPIC-2000ST (Green)	CPIC-2000 (Green)	SPIC-2000 (Green)
	UPIC-4000 (Yellow)	EPIC-4000 (Yellow)	CPIC-1000 (Yellow)	//
	UPIC-2008st (Filigree)	EPIC-2008st (Filigree)	CWIC-1000A (high wax)	//
	EWIC-1000a (High wax)	EWIC-1000A (High wax)	//	//
Jewelry Mold Resin	Rubber mold: HTU-29	Rubber mold: HTE-29	Rubber mold: HTC-29	//
	Liquid/silicon mould: PJHU series	Liquid/silicon mould: PJHE sereis	Liquid/silicon mould:YJC sereis	//

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