

# Define a High-quality DLP Printer

Special Deep and Shallow Vat Design | Wide Range of Materials Available | Applicable to the Whole Industry

**UnionTech**

Create Your Imagination

Cute380

**UnionTech**

UnionTech Corp

Room 102, Unit 40, 258 Xinzhuan Rd, Shanghai, 201612, China

Tel: +86 400 138 8966


Email: [mkt@uniontech3d.com](mailto:mkt@uniontech3d.com)

UnionTech GmbH

Bleichstrasse 8, 61137 Schöneck, Germany

Tel: +49 (0) 6187 9913 679

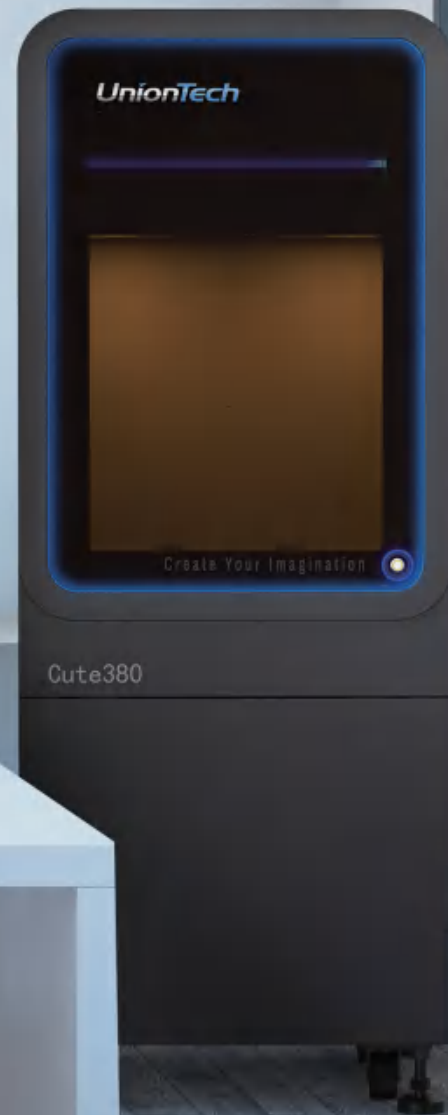
Email: [info@uniontech3d.com](mailto:info@uniontech3d.com)



Production Grade Build Volume

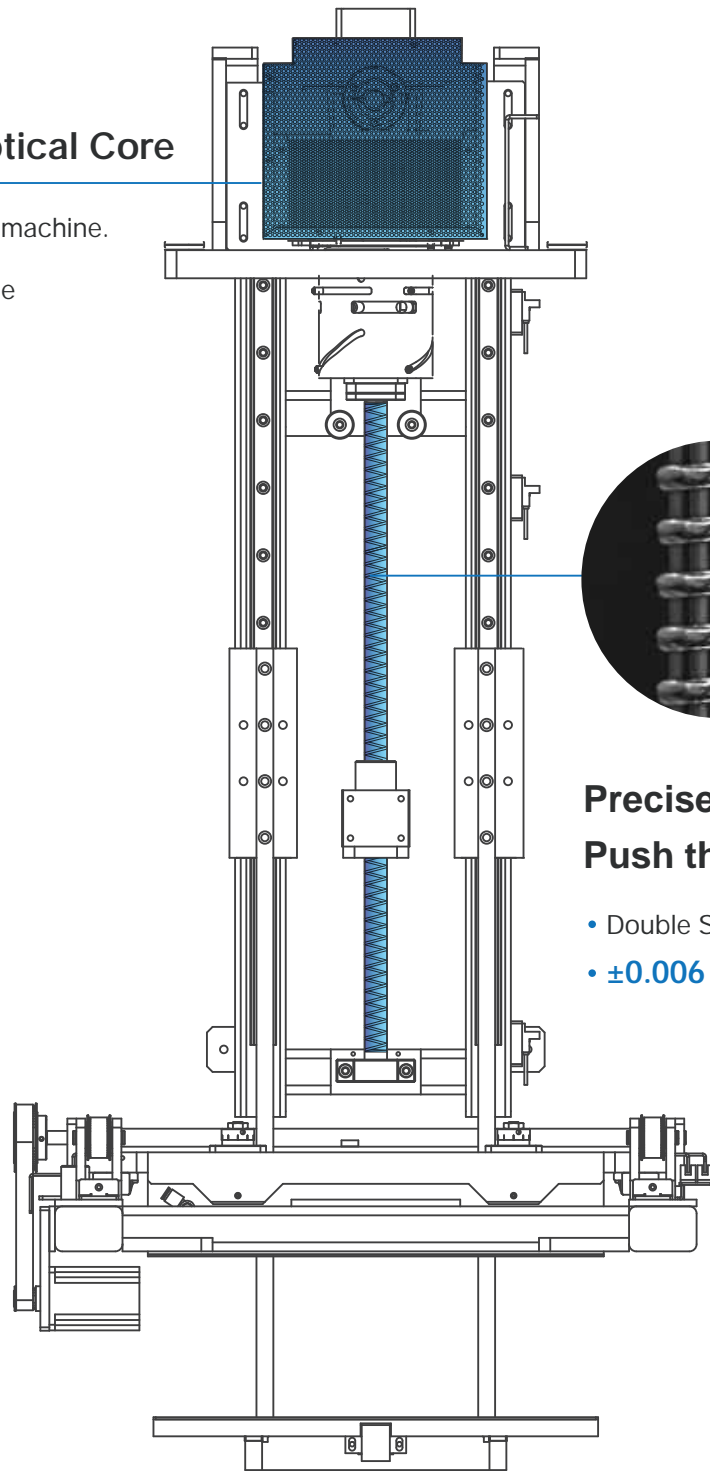
Lighting Uniformity up to 98%

Micron Liquid Level Control System



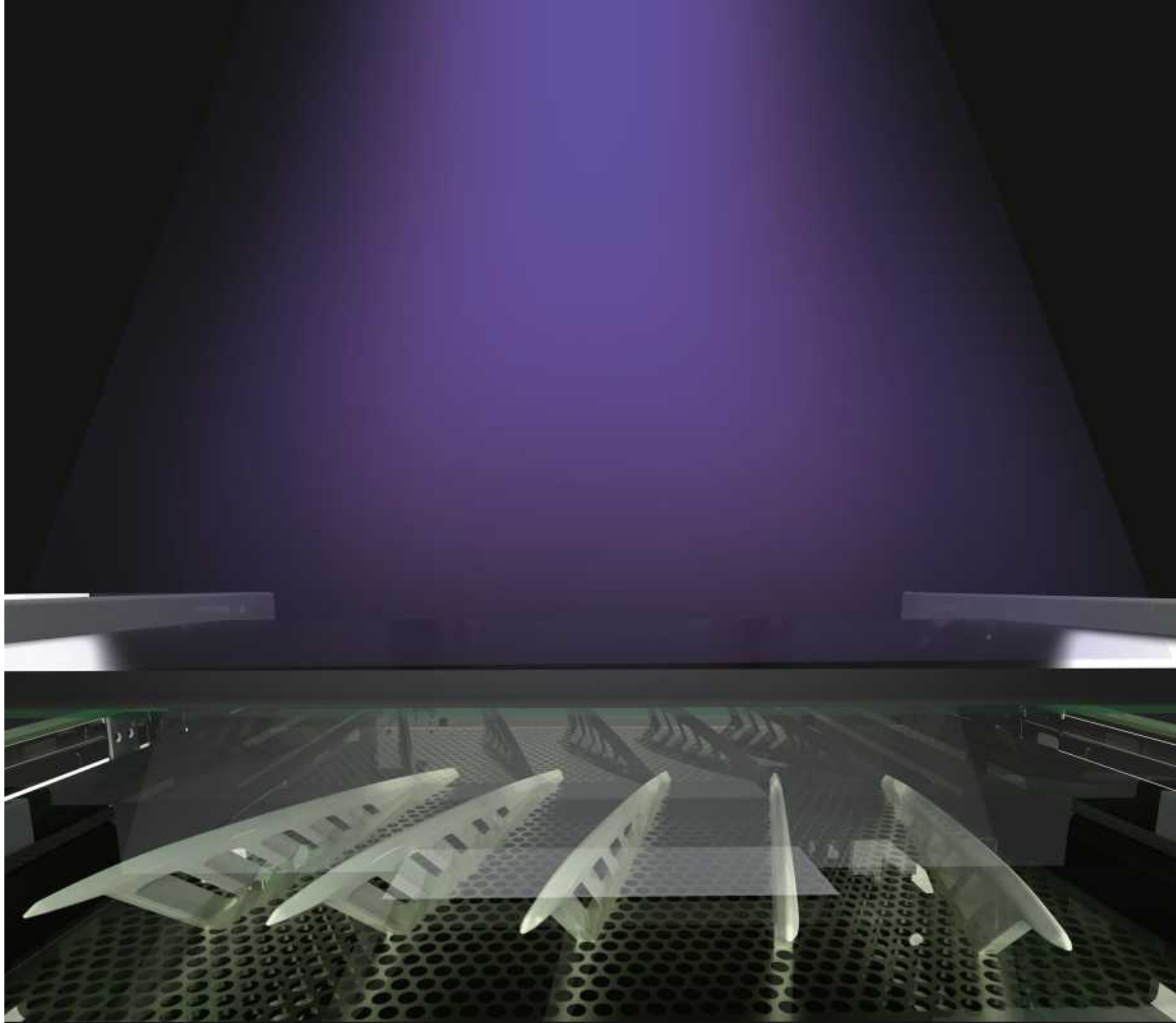
## Industrial-grade Optical Core

- Industrial-grade 4k optical machine.
- LED light source usage time up to **20000** hours.



## Precise Structure Push the Limits

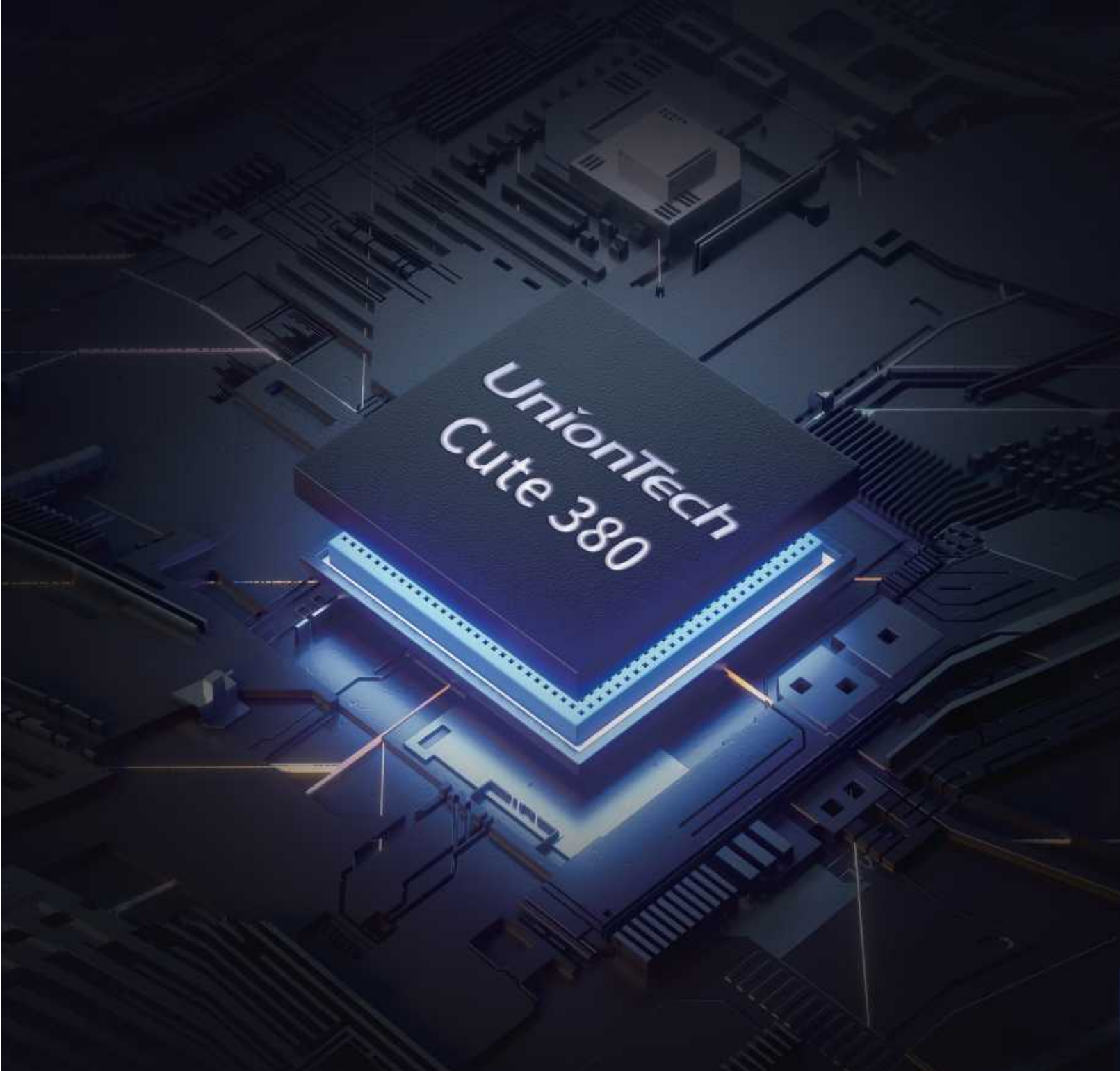
- Double Shaft Ball Screw Linear Guide Rail
- **±0.006 mm** Positioning Accuracy



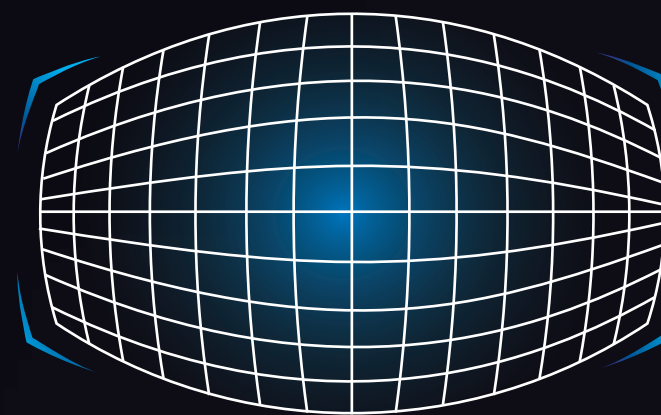
## Micron Liquid Level Control System High-speed Level Adjustment Depends on the Printing

Liquid level control algorithm can realize fast and stable adjustment control of the coating system. Reduced level adjustment time and significantly improved printing efficiency.

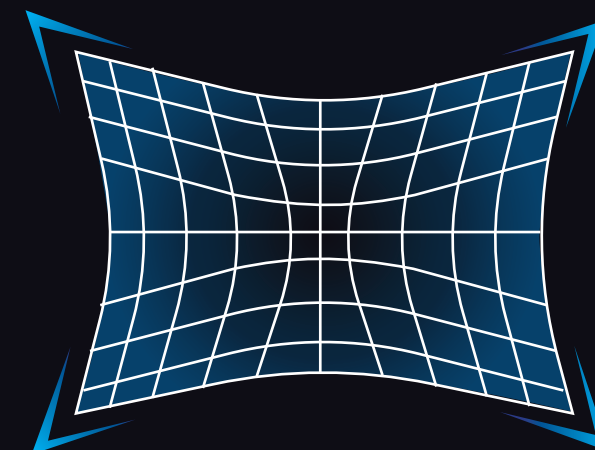




**Industrial-grade AI Algorithms**  
**Includes Multiple Sensing Systems**



Optical Algorithm Makes Printing Better  
Optical Distortion Correction  
Dimensional deviation **< 50μm**

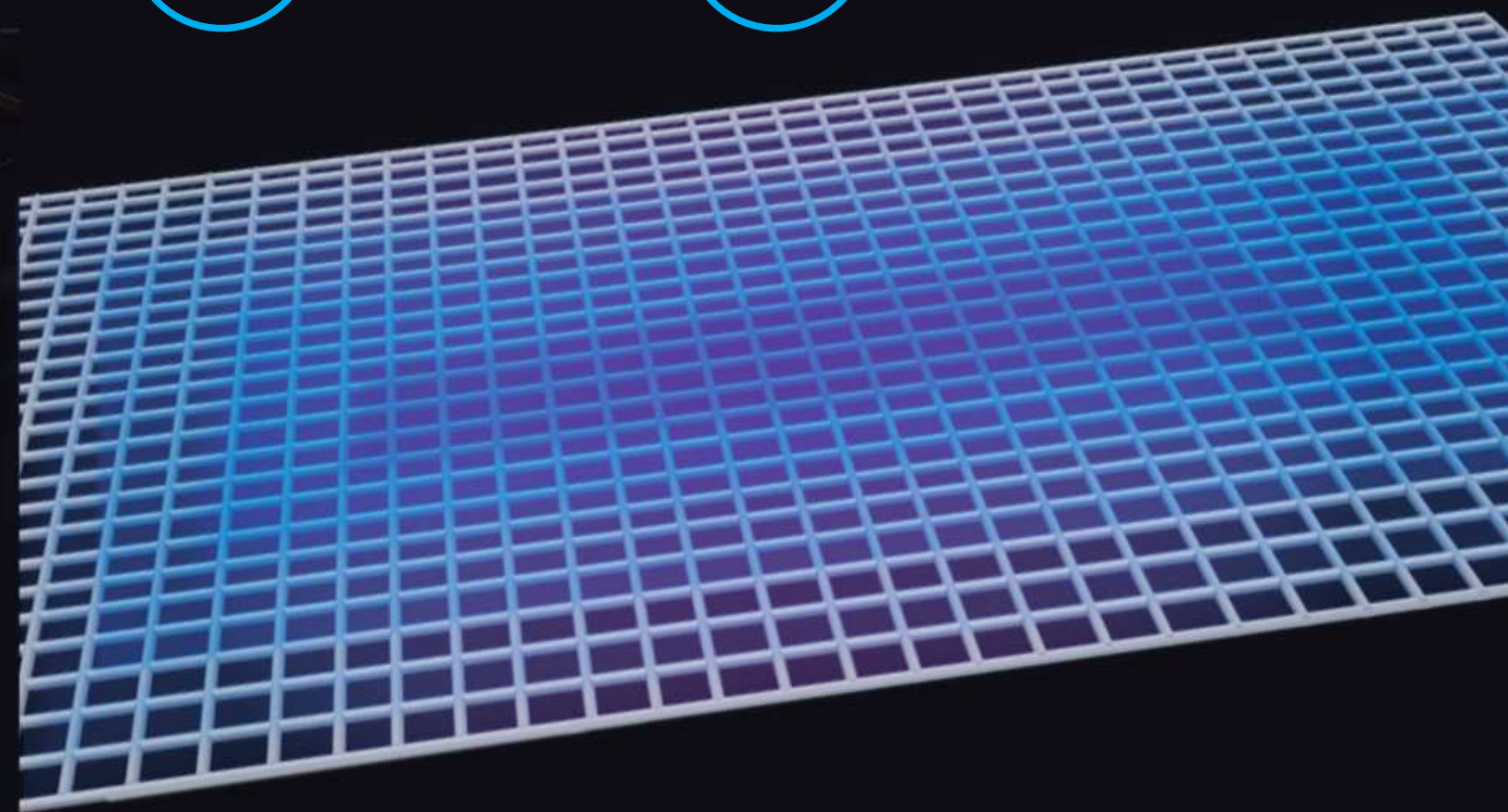


**96%**

Printing Consistency  
Up to 96%

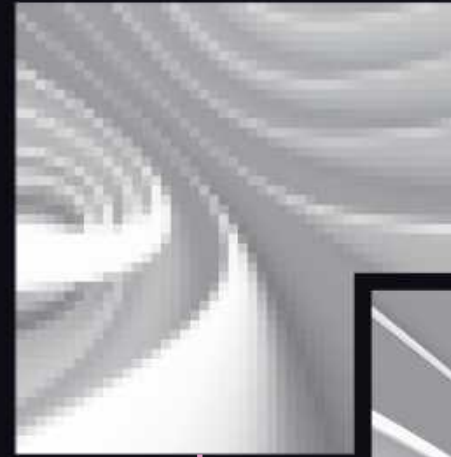
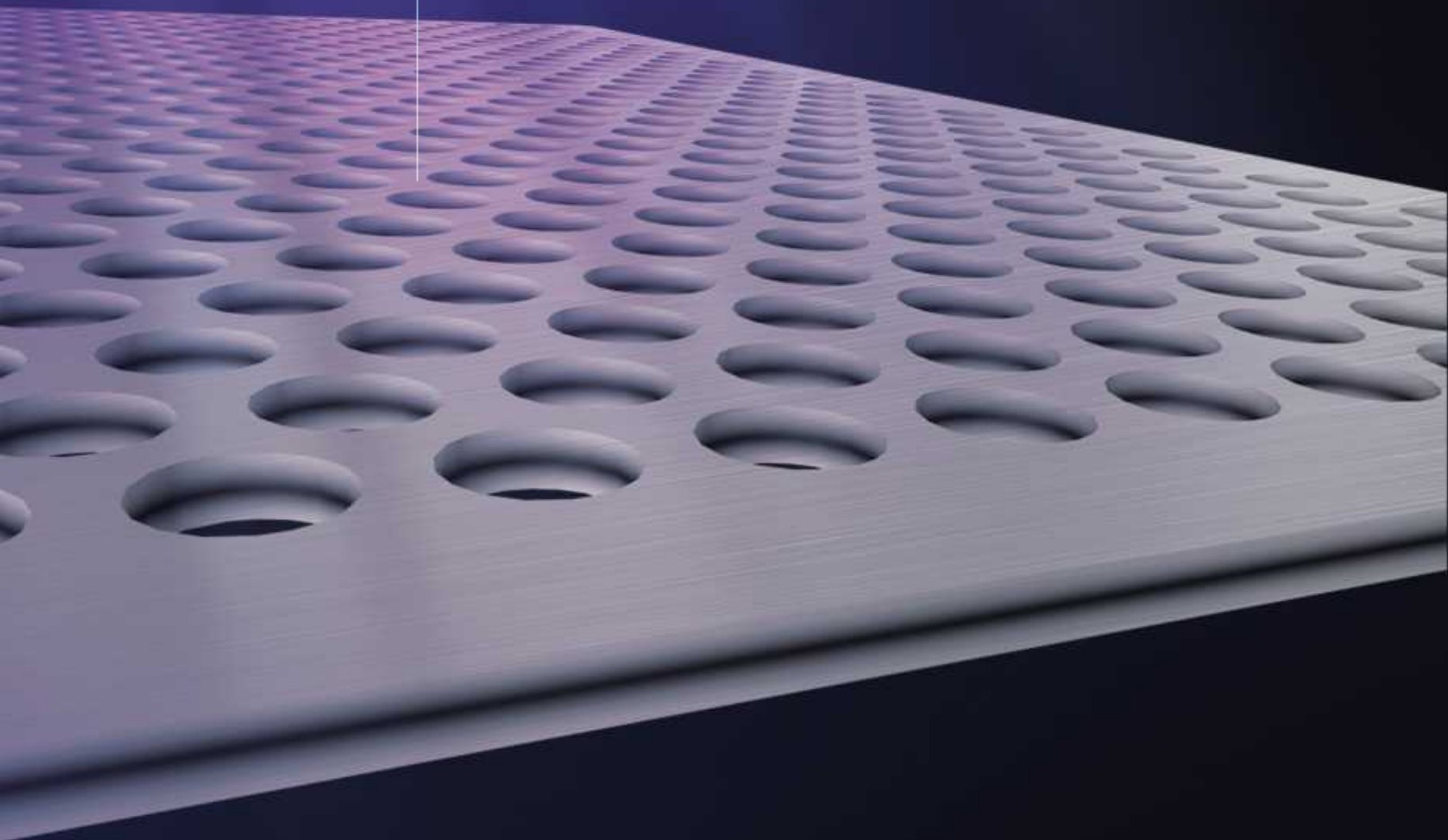
**98%**

Lighting Uniformity  
Up to 98%





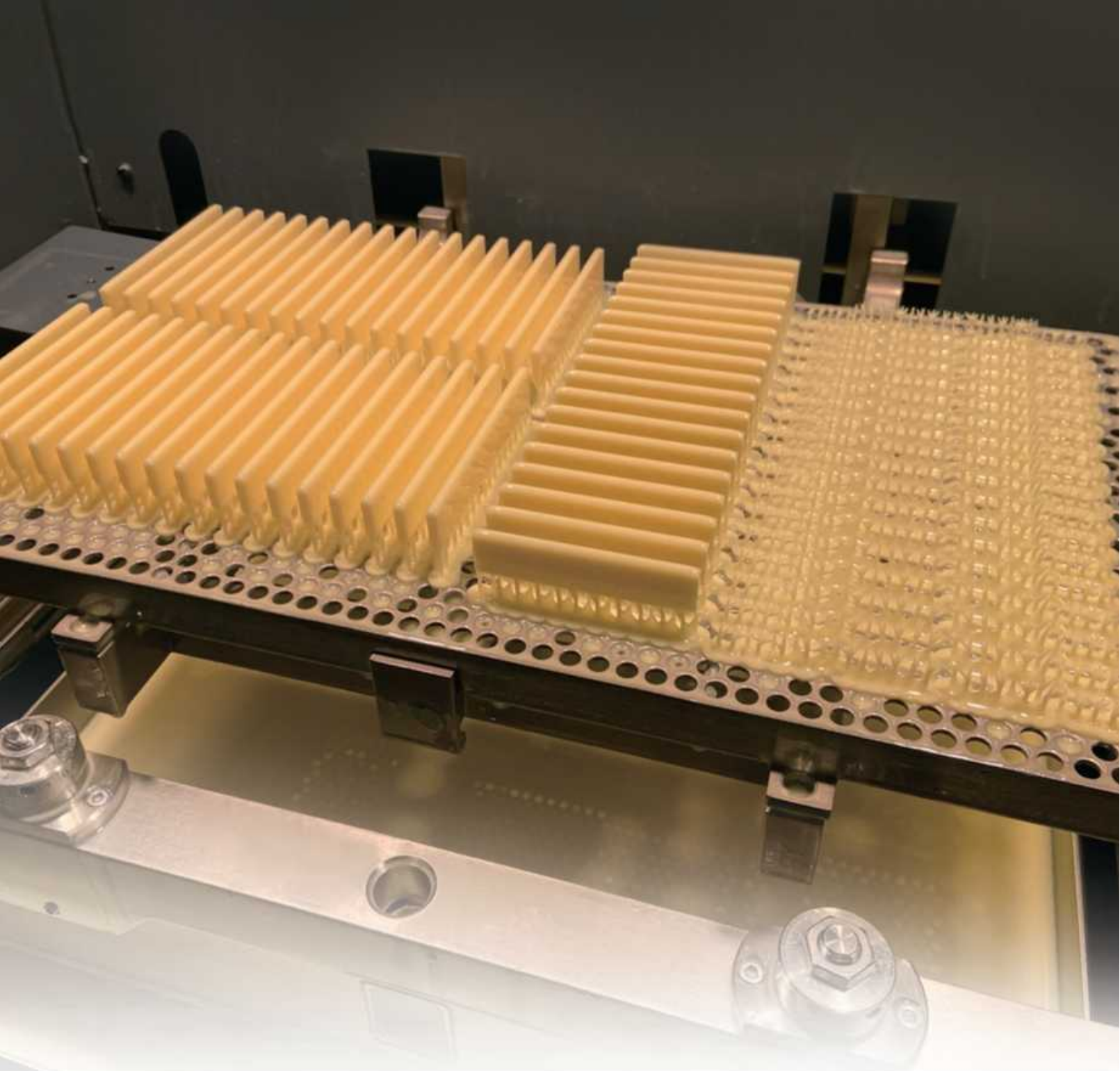
Intelligent Identification  
High Precision Printing



**20x** Anti-Aliasing



Sharp Edges and Clear Structure of the Printed Parts



## Rapid Small-batch Production

- Low Cost** No need for replaceable resin film
- High Efficiency** 15-30 mm/h
- Large Volume** Full plate small batch production
- High Precision** The printing accuracy up to  $\pm 80\mu\text{m}$
- Large Format** Printing build up to 384 x 216 x 300mm

**10in**

10inch Touch Screen  
Easy to Control



Large window to see  
the printing process clearly  
and block blue light



No Replacement Parts  
Easy to Maintain



Bad Part Removal Function  
Reduce Printing Costs



Data Transmission Supports  
WiFi / network port / USB



Door Opening Protection  
Make Printing more Securely



Distributed Closed-loop  
Control



Quiet Printing



Sensor Monitoring  
Abnormal Alarm

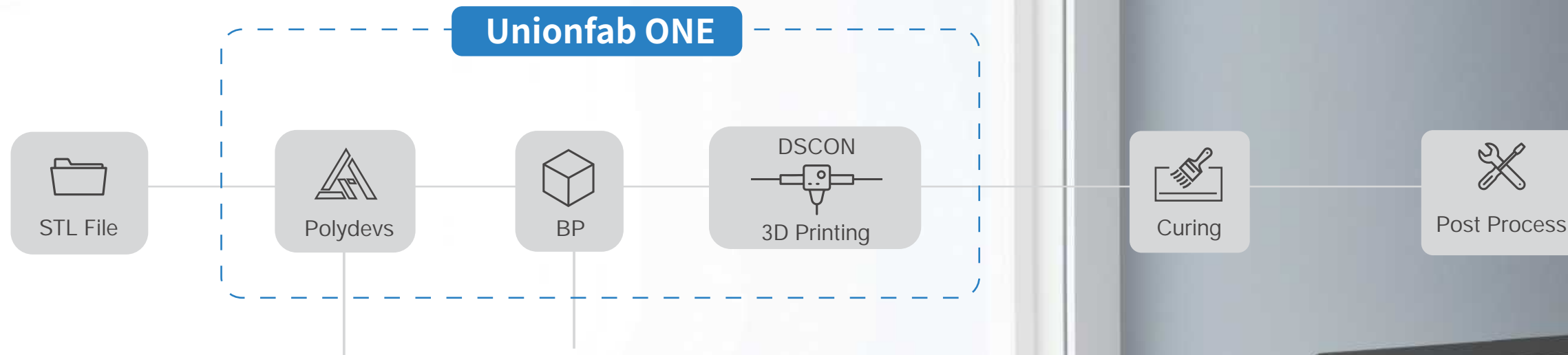


Industrial-grade Stability  
Precision Construction / Long-Term Usage  
Easy to Pass / Suitable for All Mostly Ground



Multiple devices interconnected, controlled by one computer.  
Matching industry-wide applications for ultra-precise production.  
Reduce the costs; meet unlimited creative needs.

# Full-process 3D Printing Solution



## Pre-process

- Format Conversion
- Model Repair
- Angle Adjustment & Support
- Composing & Slicing

## Slicing Optimization

- Scanning Path Planning
- Parameter Packages Processing

## Unionfab ONE Automates Operation and Data Processing

### Easy Operation

One-click printing, smart matching.

### Comprehensive Connection

One-click upload to cloud, available anywhere.





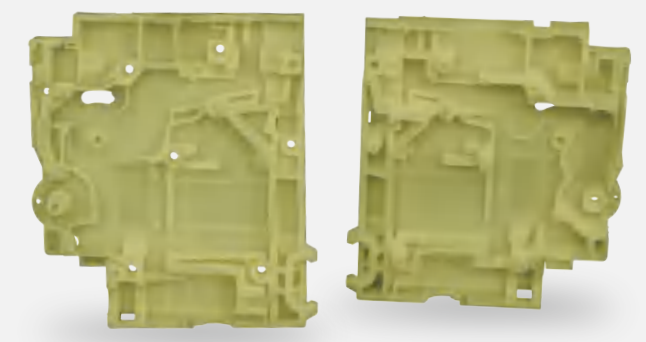


Fluid Properties

**Color** Opaque Light yellow  
**Viscosity** 582 cps @ 30°C  
**Density** 1.1 g/cm<sup>3</sup> @ 25°C

## RY70 Printed Parts

Functional parts, small batch end-use parts.  
 Perfect match to the Cute 380 for better printed parts.



Mechanical Properties	ASTM	Properties	Value
	D638	Tensile Strength	61MPa
	D638	Tensile Modulus	1600MPa
	D638	Elongation at Break	17%
	D790	Flexural Strength	78MPa
	D790	Flexural Modulus	3139MPa
	D256	IZOD Impact	21J/m
	D2240	Shore D	84

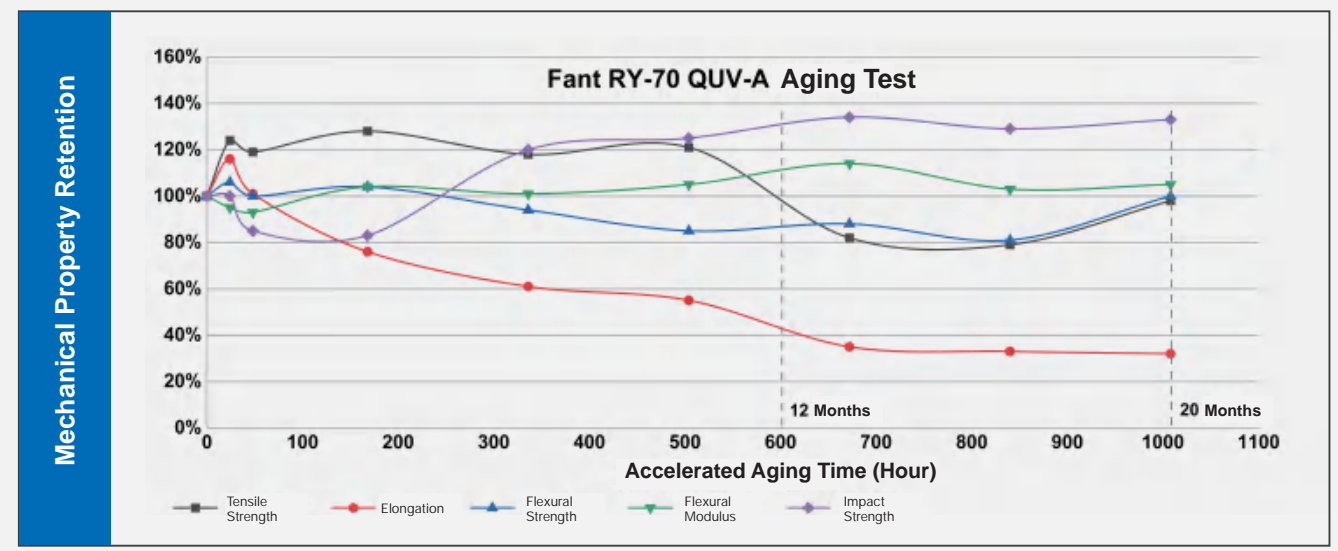
Thermal Properties	ASTM	Properties	Value
	D648	HDT@0.455MPa	66.8°C
	D648	HDT@1.82MPa	55.9°C

## Fant-RY70

High-performance Materials — Born for Top-down Projection 3D Printer

- High Toughness
- High Temperature Resistant
- High Strength
- Aging Resistance

RY70 Resin: Rapid prototyping, excellent performance of the printed parts, perfect details.



ASTM G154:QUV-A,0.7w/m<sup>2</sup>, Wavelength 340nm, 60°C. Mechanical properties tested according to ASTM D790, ASTM D256, all data expressed as average.

# Cute 380 Workflow Solution



Industrial



Medical



Dental



Cultural Creation



Consumer Electronics

Cute 380 Technical Data Sheet			
<b>Build Volume</b>	384 × 216 × 300 mm	<b>Controlling Software</b>	UnionTech™ DSCON
<b>Accuracy</b>	L=100 mm, 0.1 mm L>100mm, 1‰ L (Size Tolerance)	<b>Printing Speed</b>	40 mm/h
<b>Z-axis accuracy</b>	≤±8 μm	<b>Level Positioning Accuracy</b>	≤±0.06 mm
<b>Data Preparation Software</b>	Polydevs + BPC (Self-developed)	<b>Light Output Wavelength</b>	405 nm
<b>Light Source</b>	Industrial-grade 4K Optical Machine	<b>Temperature Range</b>	22-26 °C
<b>Power Density</b>	4.82 mw/cm <sup>2</sup>	<b>Machine Weight</b>	400 kg
<b>Machine Size</b>	742 × 842 × 1910 mm	<b>Warranty</b>	12 Months

Stature of Buddha



Orthodontic Models



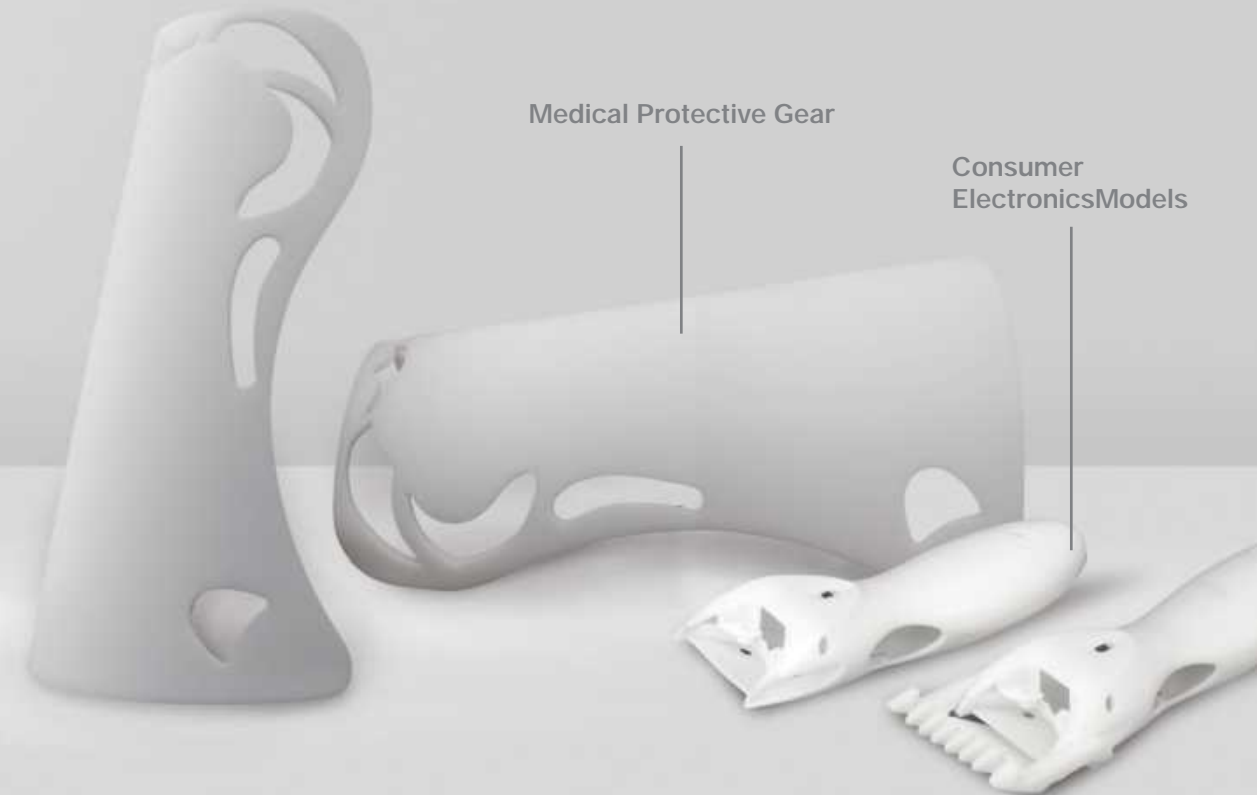
Industrial Parts



Industrial Parts



Medical Protective Gear



Consumer Electronics Models