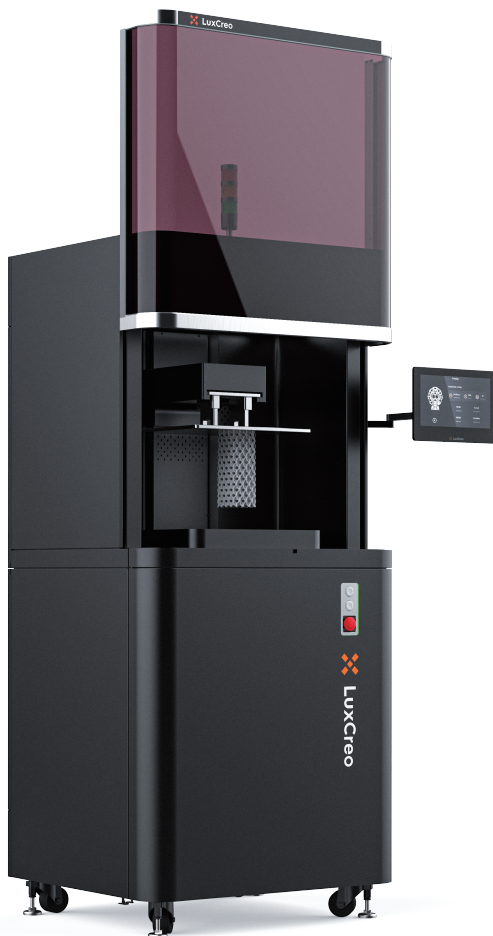




## LuxCreo Lux 3+ High-Speed Photo-Curing 3D Printer for Direct Production

Lux 3+



LuxCreo Lux 3+ is a production-grade DLP 3D printer developed by a top-notch R&D team composed of members from Tsinghua, Harvard, Cambridge, Georgia Tech. and North Carolina State Universities. Lux 3+ is ideal for rapid and accurate prototype printing and small-scale production.

Lux 3+ features 4K DLP technology and more than 100,000 parts with various geometries have been validated on Lux 3+.

Lux 3+ is also equipped with LuxCreo's software ecosystem to implement light weight design, high-speed slicing, printer interconnection and smart factory management.

### SYSTEM SPECIFICATIONS

Build Volume (XYZ)	293 × 165 × 380 mm (11.5 × 6.5 × 15 in)
Resolution	3840 × 2160 ppi
Wavelength	405 nm
Printing Speed	Vertical printing of a plate full of models with EM'23 > 30 mm/h
3D Printer Crated (WxDxH)	1070 × 1120 × 2080 mm (42 × 44 × 82 in)
3D Printer Uncrated (WxDxH)	850 × 780 × 1870 mm (33 × 31 × 74 in)
3D Printer Door Open (WxDxH)	850 × 780 × 2420 mm (33 × 31 × 95 in)
3D Printer Crated Weight	500 kg (1102 lbs)
3D Printer Uncrated Weight	400 kg (882 lbs)
Certifications	CE
Warranty	12 months manufacturer's warranty included Extended warranty options available

### SUGGESTED OPERATING ENVIRONMENT

Temperature	22-26 ° C (72-79 ° F)
Humidity (RH)	≤ 40%
Power	100-240 VAC, 50/60 Hz, 500/1500 W (printing / heating power)

### MEMBRANE

Compatible Membrane	LEAP
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### MATERIALS

Compatible Materials	EM'23, TM 79s, HT 32, DSG 07
Material Packaging	Material dependent

### SOFTWARE AND NETWORK

Software	LuxFlow
Connectivity	USB / Ethernet / WiFi

### MINIMUM CONFIGURATION

Operating System	Windows 10 64-bit operating system
CPU	Core i7 CPU@2.40GHz
Memory	16GB
Graphics Card	NVIDIA GeForce GTX 1650 Discrete graphics card
HD	HDD 500G

# Case Study

Lux 3+ offers end-to-end application solutions in areas such as consumer goods, rehabilitation solutions, industrial applications and automotives.



## Resin Materials

### EM+23

EM+23 is LuxCreo's elastic material with excellent elasticity, tear resistance and flex durability. It is ideal for functional parts requiring outstanding fatigue resistance and can be used in sports midsoles, sports protective gears, buffer materials and seals.



### TM 79s

TM 79s features excellent low shrinkage and high impact strength, which makes it perfect choice for tough and durable parts material. It can be used in rapid prototype printing and small-scale testing of electrical housing, tooling fixtures and automotive interior and exterior parts.



### HT 32

HT 32 is a hard and temperature resistant engineering resin material, which is ideal for production of molds with strong rigidity, high heat resistance and detailed resolution. It can be used in design validation and prototype printing in plastic molds, electrical housing and aerospace applications.



## Case Study

### 3D Printed Half Insole

Deigned individually, 3D printed insoles can be customized with various lattice density and rigidity. It is designed to be used in different applications such as daily wear, sports fitness and orthodontic treatment.



### 3D Printed Fixtures

Assembly fixtures with high precision for various automotive applications can be printed quickly and therefore, significantly improving the assembling speed and accuracy.



### 3D Printed Mold for Injection Molding

Molds used for injection molding (IM) are required to withstand heat to ensure the injection flow rate. High temperate resin material offers solution of rapid and accurate IM mold printing, which helps to gain competitive advantage in design, testing and R&D cycles.



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