

# 3D Ceramic Printer

## KS301C

### > Multiple materials

The printer is capable of printing a variety of materials: Al<sub>2</sub>O<sub>3</sub>, SiO<sub>2</sub>, Si<sub>3</sub>Zr, HAP, etc.

### > Temperature-controlled

It can control the strength at both high and low temperatures to 20MPa (Si<sub>3</sub>Zr).

### > 100% theoretical density

It has an expansion of 0.9% at 1500°C (Si<sub>3</sub>Zr) and a deflection of 0.1mm at 1500°C (Si<sub>3</sub>Zr).

### > Expansion and deflection

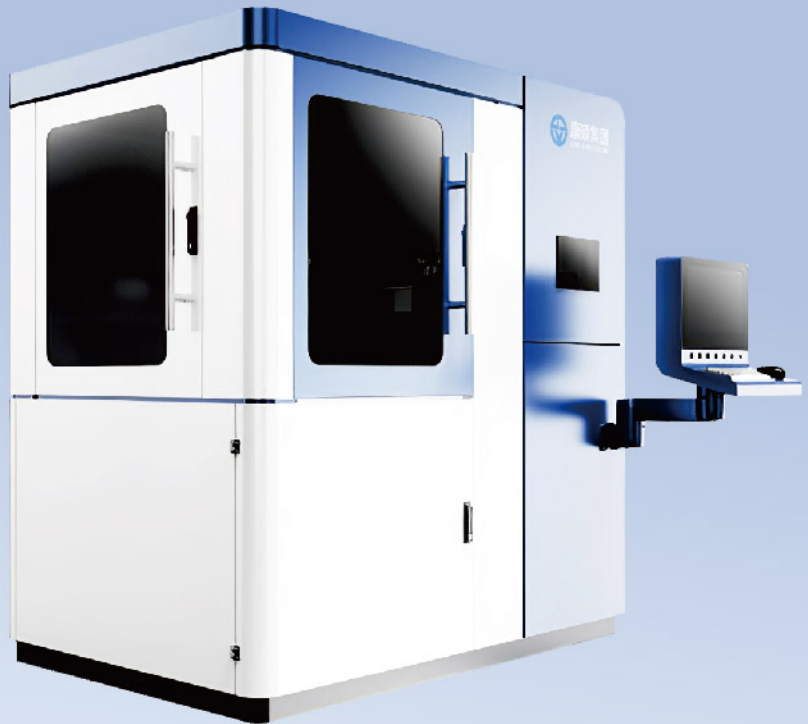
When combined with special ceramic slurry and raw materials, the sintered products approach 100% theoretical density.

### > High-precision printing

It has high printing precision, accurately representing details of 200μm and above.

### > High product strength

The strength of the products after sintering reaches or even exceeds that of traditional ceramic forming processes (such as pressing and injection molding).



#### TECHNICAL DATA

#### KS301C

Dimensions (L×W×H)	1980×1340×2150mm
Molding Range (L×W×H)	300×300×160mm
Printing Speed	6000-10000mm/s
Printing Thickness	0.05mm
Printing Accuracy	±0.1mm
Surface Finish	Ra1um~2μm
Power Supply Requirements	220-240 VAC/50Hz
Total Machine Power	5.5kW

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TECHNICAL DATA	KS301C
Light Source Type	UV Laser
Laser Wavelength	355nm
Focus Diameter	30μm
Room Temperature Requirements	20-25°C
Humidity Requirements	Below 50%
Compressed Air	6 bars
Printing Materials	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , ZrO <sub>2</sub> , HAP/TCP, silicon-zirconium composite materials, etc.



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