

FDM K1000

Kings Industrial FDM 3D Printers

Large-Format Industrial FDM 3D Printing
High-Speed & Cost-Effective Prototyping
Turn Your Ideas into Large-Scale Parts



FDM K1000

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◆ Overview

The Kings FDM K1000 is a large-format FDM 3D printer with a 1000 × 1000 × 1000mm build volume, designed for large-scale sculptures, prototypes, exhibition displays, and decorative structures. Featuring a high-speed CoreXY structure, 500mm/s maximum speed, high-flow extruder, laser auto-leveling, and a 10mm aluminum build platform, it delivers fast and stable large-format printing. Compatible with PLA, ABS, PETG, and other materials, the FDM K1000 is ideal for cultural & creative industries, sculpture, landscape design, and industrial applications.

◆ Features

- Simple frame structure, combining high precision with cost-effectiveness.
- Maximum speed ≥ 500 mm/s
- Brand new large flow extruder, heated to 300 degrees in 2 minutes 100 mm³/s+volume flow rate
- Standard high-precision laser automatic leveling
- Standard human-machine safety protection system
- Fixed platform structure to reduce model shaking and layering
- Brand new UI operation interface
- Core XY structure, born for high speed

◆ Applications

- 1. Artistic sculptures, cartoon IP figurines, urban landscape elements, and relief sculptures
- Illuminated sculptures: Decorative pieces with integrated lighting, printed using transparent PETG or modified ABS
- Cultural tourism props, exhibition displays, window displays, and large-scale decorative structures
- Collectible figures, designer toys, film and TV props, and stage sets

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◆ Technical Data

Build Size	1000 × 1000 × 1000mm
Printing Technology	Fused Deposition Modeling (FDM)
Layer Height	0.05-0.6 mm
Connectivity	USB, LAN (Wi-Fi)
Display	7-inch color touchscreen (HDMI high-definition capacitive screen)
Language Interface	Chinese / English (multiple languages supported)
Nozzle Temperature	30-300°C
Heated Bed Temperature	30-100°C
Printing Speed	Max 500 mm/s
Nozzle Diameter	0.4-2mm (optional)
Extruder Filament Diameter	3.5 mm
Slicing Software	Simplify3D (supports various third-party software)
File Formats	STL, GCODE, OBJ, etc.
Operating System	Compatible with Windows, macOS, Linux, etc.
Power-off Resume	Supported
Filament Runout Detection	Supported
Print Platform	10mm ultra-flat quenched aluminum plate; includes 3D printing platform spray for easy model removal

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◆ Technical Data

Full-Bed Leveling Points	10 × 10
Full-Bed Leveling Time	≤5 min
Sensor Accuracy	±0.03 mm
Build Platform	Upgraded 10 mm thick metal build platform, equipped with 3D printing platform spray for easy part removal
Filament Diameter	3.5 mm
XY Drive System	Industrial-grade servo motors
Z-axis Drive System	Four-axis linkage
Central Processing Unit (CPU)	32-bit ARM CPU
Power Supply	AC 100V-240V / 15A, 50Hz/60Hz
Storage Temperature	0°C—32°C (32—90°F)
Input Voltage	220V
Max Power	3000W
Rated Power	1000—2000W
Machine Exterior Finishing	Shaped profile frame
Packaging	Standard high-strength packaging crate
Recommended Operating Temperature	0°C-40°C
Compatible Materials	PLA, ABS, PETG, etc.



Shenzhen Kings 3D Co., Ltd

- 📍 Building B, No. 148 Huanli Road, Yungu Community, Xinhua Street, Guangming District, Shenzhen, China.
- 📍 No.178, Dingxing Road, High-tech Zone, Zhuhai City, Guangdong Province

Web: www.kings3dprinter.com
Mob/Whatsapp: +86 17727416895
Email: market@kings3dprinter.com