Kings®
3D Printing

FFF 1000s 「SCULPTURE USE」

Kings Industrial FFF 3D Printers

23 Innovative Technologies, High Speed FFF 3D Printing
Efficient and Cost-Effective Prototyping
Bring Your Idea into Reality









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◆ Overview

The Kings FFF 3D Printer 1000s (3.5mm) is tailored for large-format artistic and creative production such as sculpture and art installations. With a massive 1000 x 1000 x 1000mm build area and a powerful extrusion system optimized for 3.5mm materials, it enables faster deposition and greater volume output for complex artistic works. Featuring the same robust hardware as the industrial version-Klipper firmware, servo motors, and precision linear modules-it ensures stable, efficient printing. The reinforced aluminum build plate and external material storage further support extended, uninterrupted runs with thick, specialty filaments, making it ideal for artists, designers, and architectural modelers.

◆ Features

- Stable Printing Performance
- Independent Material Storage Box
- Extra-Large Print Size: 1000*1000*1000mm
- BMG Dual-Gear Direct Drive Extrusion System
- Rapid Heating, Heated Bed Reaches up to 110°C
- Industrial-Grade Linear Module Guides on XY Axes
- Nozzle Temperature up to 320°C, Compatible With Most Materials on the Market
- High-Torque Leadshine Hybrid Servo Motors on XY Axes With Closed-Loop Control
- Independent Power-Supplied Rail-Guided Heated Bed + 12mm High-Temperature Quenched Ultra-Flat Aluminum Plate
- Dual Z-Axis With Four-Point Mechanical Synchronization and Integrated High-Precision Ball Screws

◆ Applications

- Tooling and Inspection Fixtures, Mold Industry, Automotive Duct Applications, Vacuum Forming, Investment Casting (Lost Wax/Lost Foam), Industrial Prototypes, R&D Parts, Figurines, Custom Components, Model Making, and Small-Batch Production.

◆ Printing Materials

- PLA, ABS, PETG and Other Standard 3.5mm Diameter 3D Printing Filaments.

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◆ Technical Data

Build Size	1000×1000×1000mm
Machine Size	1570×1300×1910mm
Printing Technology	Fused Deposition Modeling
Filament Run-out Alarm	Yes
Filament Diameter	3.5mm
Printing Speed	Max 350mm/s
Number of Nozzle(s)	1
Nozzle(s) Diameter	0.8/1.0/1.2/1.5/2.0mm
Nozzle(s) Temperature	Max 310℃
Z-axis Structure	Four Z-axis Mechanically Synchronized Lead Screws
XY-axis Structure	Dual-shaft Linear Rail Modules With Closed-loop Servo Motors
Storage Temperature	0℃-32℃（32°-90°F）
Ambient Temperature	15℃-32℃（60°-90°F）
Power Requirements	AC100V-AC240V 50Hz/60Hz
Storage Box	Yes
Lighting Function	Built-in LED Lighting
Display	7-inch Touchscreen
CPU	32-bit ARM CPU Microcontroller
Connectivity	USB Drive, LAN (Wi-Fi Transmission)
Operating System	Windows, macOS, Linux
File Format	STL, OBJ
Enclosure Structure	Fully Enclosed Design with Dual-opening Front Doors
Machine Surface Finish	High-temperature Baked Sheet Metal Finish
Packaging Specifications	Export-standard High-strength Packaging
Gross Weight	≥550kg

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