Kings 3D Printing

FFF 1000

INDUSTRIAL 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 1000 (1.75mm) is engineered for high-precision, industrial-scale manufacturing. With an expansive 1000 x 1000 x 1000mm build volume, it accommodates complex prototypes and end-use parts across various sectors. Equipped with a high-speed Klipper system, closed-loop servo motors, and industrial-grade linear modules, it delivers consistent accuracy and fast output. The custom ball screw and 12mm aluminum platform support heavy-duty models up to 80kg. Designed for professional environments, it features an independent filament storage box and supports a wide range of 1.75mm engineering-grade filaments including PLA, ABS, carbon fiber, nylon, and more.

◆ 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 Non-standard Components, Model Making, and Small-Batch Production.

◆ Printing Materials

- PLA, ABS, ASA, PETG, TPU, PA, carbon fiber-reinforced, glass fiber-reinforced, wood-filled and other 1.75mm standard filament.

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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	1.75mm
Printing Speed	Max 350mm/s
Number of Nozzle(s)	1
Nozzle(s) Diameter	0.3/0.4/0.6/0.8mm
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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