

# FDM 1000<sub>s</sub> 「SCULPTURE USE」

## Kings Industrial FDM 3D Printers

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



# FDM M1000s

*Kings*

## ◆ Overview

The Kings FDM 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 Non-standard Components, Model Making, and Small-Batch Production.

## ◆ Printing Materials

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

## ◆ Technical Data

|                          |  |
|--------------------------|--|
| Build Size               | 1000×1000×1000mm   |
| Machine Size             | 1570×1300×1910mm   |
| Printing Technology      | Fused Deposition Modeling (FDM)                              |
| Layer Resolution         | 0.05-0.4mm   |
| Filament Run-out Alarm   | Yes  |
| Filament Diameter        | 3.5mm  |
| Printing Speed           | 30-350mm/s   |
| Number of Nozzle(s)      | 1  |
| Nozzle(s) Diameter       | 0.8/1.0/1.2/1.5/2.0mm  |
| Nozzle(s) Temperature    | Max 310°C  |
| 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°C-32°C ( 32°-90°F )  |
| Ambient Temperature      | 15°C-32°C ( 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, Linux, Mac  |
| 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   |

