

# FDM 1000 「INDUSTRIAL 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 1000

*Kings*

## ◆ Overview

The Kings FDM 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 (FDM)                              |
| 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°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, 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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