Kings 3D Printing

# FFF 3040

## Kings Industrial FFF 3D Printers

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











# FFF 3040

Kings

## ◆ Overview

The Kings FFF 3D Printer 3040 is a reliable and efficient solution designed for precision and versatility. With a printing size of 300 x 300 x 400 mm and machine dimensions of 530 x 520 x 825 mm, it offers a compact yet functional design. This printer is ideal for a range of materials, including PLA (eco-friendly and non-toxic), ABS, and other standard 1.75mm diameter 3D printing filaments. Weighing in at over 48kg, the Kings 3040 is built for stability and durability, making it perfect for a variety of 3D printing projects.

## ◆ Features

- Klipper high-speed system
- 4.5-inch HD capacitive touchscreen
- Maximum print speed up to 500mm/s
- Industrial-grade linear guides for XY axis
- Dual Z-axis synchronized integrated leadscrews
- Positioning accuracy: XY axis 0.0125mm, Z axis 0.0025mm
- Quick-release ceramic heater hotend for high-speed printing
- Leadshine high-precision servo motors for XY axis (closed-loop drive)
- HGX V2 hardened steel gear direct drive extruder with reduction system
- Independent power supply silicone heated bed + 12mm thick aluminum platform + detachable magnetic steel plate for better flatness and easy part removal
- Fully enclosed integrated chassis with temperature control fan, maintaining internal temperature up to 60°C- ideal for printing high-temperature materials such as ABS, PETG, nylon, and carbon fiber reinforced nylon

## ◆ Applications

- Tooling and Inspection Fixtures, Mold Industry, Automotive Duct Applications, Vacuum Forming, Investment Casting, Industrial Prototypes, R&D Parts, Figurines, 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 | 300×300×400mm |
| Machine Size | 530×520×825mm |
| Printing Technology | Fused Deposition Modeling |
| Air Filtration System | Dual-fan Filtration System |
| WiFi File Transfer | Yes |
| Filament Run-out Alarm | Yes |
| Leveling Method | Automatic Leveling |
| Number of Nozzle(s) | 1 |
| Printing Speed | Max 500mm/s |
| Movement | XY Axis Synchronous Belt Linear Guide Rail, Double Z Axis Mechanical Integrated Synchronous Screw Rod |
| Servo | XY Axis Lesai Closed-loop Servo Motor Set (42cme08+CL1-507) |
| Machine Structure | Fully Enclosed Constant-Temperature Chamber (Duel-swing Door Design) |
| Filament Storage Box | Externally Mounted Hanging Type |
| Lighting Function | Built-in LED Lighting |
| Default Nozzle Diameter | 0.4/0.6/0.8/1.0mm |
| Nozzle(s) Temperature | Max 320℃ |
| Heated Bed | Independently Powered Silicone Heated Bed + 12mm Aluminum Plate + Detachable Magnetic Steel Plate |
| Display | 4.5-inch Touchscreen |
| Connectivity | USB Drive, LAN (WiFi) |
| Power Requirements | AC100V-AC240V 50Hz/60Hz |
| Operating System | Windows, macOS, Linux |
| File Format | STL, GCODE, OBJ |
| CPU | 32-bit ARM CPU Microcontroller |
| Machine Surface Finish | High-temperature Baked Sheet Metal Finish |
| Packaging Specifications | Export-standard High-strength Packaging |
| Gross Weight | ≥48kg |

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