

FDM 445

Kings Industrial FDM 3D Printers

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



FDM 445

Kings

◆ Overview

The Kings FDM 445 3D Printer is built for high-speed, high-temperature industrial applications. With a 400 × 400 × 500 mm build volume, it supports functional prototyping, tooling, and small-batch production. Powered by a Klipper system, it reaches speeds up to 600 mm/s with stable performance. A CoreXY structure and triple Z-axis ensure precision and reliability. The 330°C hotend and 120°C heated bed enable printing with ABS, Nylon, carbon fiber composites, TPU, and PLA. Additional features include auto leveling, filament detection, an enclosed chamber, and air filtration for safe operation.

◆ Advantages

- **Ultra-stable structure:** Core XY structure + three Z-axis ball screw drive. Stable operation , high precision
- **High-temperature printing:** The nozzle reaches a maximum temperature of 330°C. The platform has a maximum temperature of 120°C and is compatible with engineering-grade high-temperature consumables
- **High speed and high efficiency:** Equipped with the Klipper high-speed system, The maximum printing speed is up to 600mm/s
- **High-precision configuration:** High precision wire gauge HGX V2 extruder
- **Smart and convenient:** Automatic leveling Material breakage detection , Built-in camera , LED lighting
- **Fully enclosed constant temperature:** High-temperature baking paint for sheet metal Double-door chassis Stable at a constant temperature
- **Safe and environmentally friendly:** Built-in air filtration system Clean and safe printing

◆ Applications

- Tooling fixtures, Inspection tools, Mold industry, Automotive piping applications, blister packaging, Lost Foam, Industrial prototypes, Research and development components, collectible figures, Non-standard components, Model making, Small-batch production applications, etc.

◆ Printing Materials

- PLA , TPU , carbon fiber, ABS , nylon, nylon carbon fiber, etc., and other standard 1.75mm diameter 3D printing materials.

◆ Technical Data

Build Size	400×400×500mm
Machine Size	580×550×920mm
Printing Technology	Fused Deposition Modeling (FDM)
Number of Nozzles	1
Default Extruder Diameter	0.4 mm
Maximum Temperature of Extruder	330°C
Maximum Temperature of Heating Platform	120°C
Maximum Printing Speed	≤ 600 mm/s
Operational Structure	Core XY
motor Drive	TMC2209
Leveling Method	Automatic Leveling
Material Breakage Detection	Yes
Air filtration System	Yes
Display Screen	4.5-inch Capacitive Touchscreen
Lighting Function	Built-in LED Lighting
Chassis Structure	Fully Enclosed Temperature-controlled Chassis (double door type)
Storage Bin	Externally Mounted
Connectivity	USB Drive, LAN (Wi-Fi Transmission)
Power Requirements	AC100V-AC240V 50Hz/60Hz
Supported Operating Systems	Windows , Linux , MAC
Supported File Formats	STL , OBJ , Gcode
Appearance Treatment	High-temperature Baking Paint for Sheet Metal
Recommended Ambient Temperature	15°C-32°C (60°F-90°F)
Storage Temperature	0°C-32°C (32°F-90°F)
Gross Weight	≥70kg



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