

FDM 220

Kings Industrial FDM 3D Printers

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



◆ Overview

Kings FDM 220 3D printer delivers high-speed, stable, and precise printing with cutting-edge features designed for professional and industrial applications. Equipped with a powerful Klipper system and a robust CoreXY structure, it supports high-temperature printing up to 330°C while ensuring ease of use through automatic leveling and a fully enclosed metal chassis for optimal environmental control.

◆ Features

- Maximum printing speed up to 600mm/s
- Stable printing with triple Z-axis lead screw drive
- High-temperature printing capability with nozzle up to 330°C
- Advanced klipper high-speed control system
- Automatic bed leveling for convenience and accuracy
- High-precision linear rails for smooth motion
- HGX V2 extruder for reliable filament feeding
- Fully enclosed sheet metal chassis for temperature stability and safety
- CoreXY motion structure for enhanced speed and precision

◆ 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, TPU, PETG, and other standard 1.75mm diameter 3D printing materials.

◆ Technical Data

Build Size	220×220×250mm
Machine Size	402×420×543mm
Printing Technology	Fused Deposition Modeling (FDM)
Layer Resolution	≥0.05mm
Air Filtration System	Yes
Filament Run-out Alarm	Yes
Camera	Yes
Leveling Method	Automatic Leveling
Number of Nozzle(s)	1
Printing Speed	≤600mm/s
Movement	CoreXY
Motor Drive	TMC2209
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	0.4mm
Nozzle(s) Temperature	Max 330°C
Heated Bed	Max 120°C
Display	4.5-inch Touchscreen
Connectivity	USB Drive, LAN (WiFi)
Power Requirements	AC100V-AC240V 50Hz/60Hz
Operating System	Windows, Linux, MAC
File Format	STL, GCODE, OBJ
Recommended Operating Temperature	15°C-32°C(60°-90F)
Storage Temperature	0°C-32°C (32°-90°F)
Gross Weight	≥25kg

