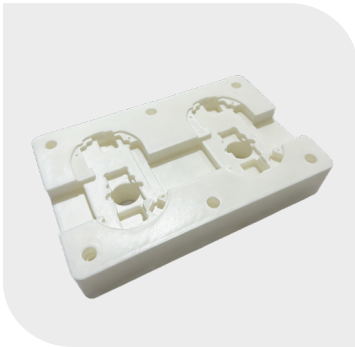


FDM 1000PRO

Kings Industrial FDM 3D Printers

Large-Format Industrial FDM 3D Printing
High-Speed & Cost-Effective Prototyping
Turn Your Ideas into Large-Scale Parts



FDM 1000PRO

Kings

◆ Overview

The Kings FDM 1000Pro is a large-format industrial FDM 3D printer featuring a 1000 × 1000 × 1000 mm build volume, designed for large-scale prototyping, functional parts, tooling, and small-batch production. Powered by Kings' industrial-grade control system, full-servo motion system, high-flow extruder, and precision laser auto-leveling, it delivers enhanced printing accuracy, doubled printing speed, and reliable 24/7 operation.

With a robust industrial structure and compatibility with a wide range of engineering-grade materials, the FDM 1000Pro provides an efficient solution for automotive, mold making, industrial manufacturing, and R&D applications.

◆ Advantages

→ All-New, Kings-Exclusive Industrial Control System

- Featuring a newly developed industrial control system exclusive to Kings, shared across its FGF and upgraded FDM platforms. Designed for reliable 24/7 continuous operation, it supports bus control cycles as fast as 125 μs and leverages CNC-proven motion control algorithms to minimize system crashes and deliver higher printing precision and stability.

→ Full-Servo Motion System

- Servo motors on all XYZ axes deliver higher positioning accuracy and improved print quality. Absolute position memory eliminates the need for homing after a power interruption, while one-touch print resumption makes operation more precise, quieter, and more convenient.

→ High-Flow 1.75 mm Extruder

- Featuring a redesigned extruder paired with an H2D-equivalent hotend for more efficient heating and faster material extrusion. Printing speed is doubled, reducing the time for the same part from 106 hours on the original FDM 1000 to just 60 hours on the FDM 1000Pro.

→ High-Precision Laser Auto-Leveling

- A non-contact laser leveling module with 0.03 mm detection accuracy scans 100 points across the entire build area in approximately 5 minutes. Faster measurement, more accurate leveling, and contact-free detection improve first-layer consistency while reducing the risk of platform damage.

◆ Applications

- Fixtures and gauges, the mold industry, automotive piping applications, thermoforming, lost-wax casting, industrial prototypes, R&D parts, non-standard components, model manufacturing, lighting fixtures, small-batch production applications, and more.

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◆ Technical Data

Printing	
Printing Technology	FDM
Build Size	1000×1000×1000mm
Layer Thickness	0.05~0.4mm
Filament Diameter	1.75mm (Standard)
Nozzle Diameter	0.4/0.6/0.8mm (Optional)
Filament Compatibility	PLA / ABS / TPU / Carbon Fiber / Wood-Filled / Metal-Filled / Marble-Filled and other materials
Temperature	
Nozzle Temperature	30~350°C
Heated Bed Temperature	30~110°C
Recommended Operating Temperature	0~40°C
Speed	
Max Printing Speed	600mm/s
Flow Rate	45mm³/s
Electrical	
Power Supply	AC220V±10% / 50Hz
Display	7-inch Color Touchscreen
Lauguage	Multiple Languages
Rated Power	5.8kW
Input Voltage	220V
Rated Current	27.88A
Connectivity	USB, Local Area Network (Wi-Fi)

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◆ Technical Data

Software	
Software	Compatible with Multiple Slicing Software
File Formats	STL, GCODE, OBJ, and etc.
Operating System	RT-Linux
Special Function	
Filament Runout Detection	Supported
Power-off Resume	Supported
Control System	Kings Self-developed, Field-proven PLC-based Industrial Control System
XY Motion System	Fully Enclosed Linear Motion Modules
Z-axis Motion	Four-Axis Synchronized Drive
Bed Leveling	Non-contact Automatic Laser Bed Leveling
Sensor Accuracy	±0.03mm
Door Opening Detection	Safety Door Lock
Mechanical	
XY Drive Motor	High-precision Servo Motor with Coordinate Memory Function
Z-axis Motor	4 Bus-Controlled Servo Motors, Electronic Synchronization, with Holding Brakes
Extruder	High-flow 1.75mm Extruder
Full-Bed Leveling Points	10*10
Full-Bed Leveling Time	≤5min
Build Platform	Upgraded 10 mm thick metal build platform, equipped with 3D printing platform spray for easy part removal
Product Specifications	
Machine Size	1725×1335×1915mm
Packaging Dimensions	1785×1395×1945mm



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