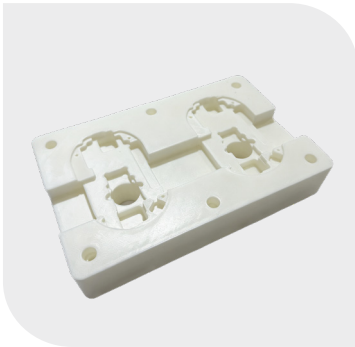


FDM 1000PRO

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 filament printer with a build volume of 1000 × 1000 × 1000mm, designed for large-scale prototyping, functional parts, tooling, and small-batch production. It features a robust industrial structure, enclosed linear motion modules, four-axis Z-axis linkage, and a 10 mm metal build platform with a specialized printing surface for easy part removal.

Compatible with a wide range of engineering and industrial-grade materials, the Kings FDM 1000Pro provides stable and efficient printing for automotive, mold making, industrial manufacturing, and R&D applications.

◆ Advantages

→ All-New Industrial Control System

- An all-new industrial smart control system,
- Which is superior in every way to existing consumer-grade motherboard control systems,
- Capable of stable, long-term operation 24/7,
- Preventing print failures of high-value-added products due to system malfunctions.

→ High-Flow Extruder

- The new 1.75mm extruder features higher heating efficiency and faster extrusion, doubling the print speed (ABS print speed is 100% faster than the previous extruder)

→ Power Loss Recovery

- The X, Y, and Z axes all use absolute-value servo motors, which feature a coordinate memory function, enabling one-click resume printing after a power outage.

◆ 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

Build Size	1000 × 1000 × 1000mm
Machine Size	1725 × 1335 × 1915mm
Packaging Dimensions	1785 × 1395 × 1945mm
Printing Technology	Fused Deposition Modeling (FDM)
Layer Height	0.05-0.4mm
Connectivity	USB, Local Area Network (Wi-Fi)
Display	7-inch color touchscreen
Language Interface	Chinese / English (multiple languages supported)
Nozzle Temperature	30-310°C
Heated Bed Temperature	30-100°C
Printing Speed	Max 500mm/s
Nozzle Diameter	0.3 / 0.4 / 0.6 / 0.8mm (optional)
Extruder Filament Diameter	1.75mm
Slicing Software	Compatible with multiple slicing software
File Formats	STL, GCODE, OBJ, etc.
Operating System	RT-Linux
Power-off Resume	Supported
Filament Runout Detection	Supported

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◆ Technical Data

Bed Leveling	Non-contact automatic laser bed leveling
Full-Bed Leveling Points	10 × 10
Full-Bed Leveling Time	≤5min
Sensor Accuracy	±0.03mm
Build Platform	Upgraded 10 mm thick metal build platform, equipped with 3D printing platform spray for easy part removal
XY Motion System	Fully enclosed linear motion modules
Z-Axis Motion	Four-axis synchronized drive
Print Head	Quick-release print head
Central Processing Unit (CPU)	64-bit ARM Cortex-A series processor
Power Supply	AC220V ±10% / 50Hz
Input Voltage	220V
Rated Power	5.8kW
Rated Current	27.88A
Machine Exterior Finishing	High-strength aluminum alloy machine enclosure
Packaging	Standard-compliant packaging crate
Recommended Operating Temperature	0°C-40°C
Compatible Materials	PLA / ABS / TPU / Carbon Fiber / Wood-Filled / Metal-Filled / Marble-Filled and other materials



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