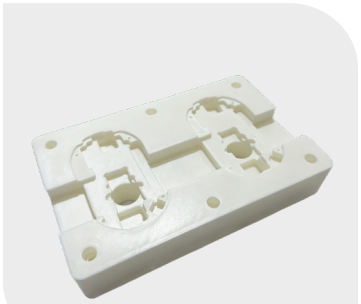
Kings 3D Printing

# 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











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## ◆ 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 CNC Industrial Control System

- Self-Developed CNC Control System — Upgraded from conventional consumer-grade FDM control systems.
- 24/7 Stability & Precision — 125 µs bus control cycle; minimized system crashes and enhanced printing accuracy.

### → Full-Servo Motion System

- High-Precision XYZ Servo Motors — Improved positioning accuracy with quieter operation.
- Absolute Position Memory — No homing after power loss; one-touch print resumption.

### → High-Flow 1.75 mm Extruder

- Enhanced Heating & High-Flow Extrusion — Redesigned extruder with a high-flow hotend.
- Up to 2x Faster Printing — Reduced printing time by 40% for the same part.

### → High-Precision Laser Auto-Leveling

- 0.03 mm Non-Contact Detection — Accurate leveling with reduced risk of platform damage.
- 100-Point Scan in 4 Minutes — Faster measurement and more consistent first-layer quality.

## ◆ 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 | 0.05~0.6mm |
| 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℃ |
| Heated Bed Temperature | 30~110℃ |
| Recommended Operating Temperature | 0~40℃ |
| **Speed** | |
| Max Printing Speed | 600mm/s |
| Flow Rate | 40mm³/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 Dectetion | 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 |

| 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 | ≤4min |
| 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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