Kings®
3D Printing

FGF-3000PRO

Kings Industrial FGF 3D Printers

Large Format, High Speed, Low Material Cost

FGF-3000PRO

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◆ Overview

Kings FGF-3000Pro is large-format, industrial pellet extrusion 3D printers specifically designed for mold industry with advantages of lower material costs, high printing efficiency, and excellent printing stability. It uses thermoplastic pellets for mold manufacturing like PETG+30%GF (heat resistance up to 90℃) , PP+30%GF (up to 130℃), making it ideal for producing durable, functional molds. It is popular for industries like automotive, marine, and composite tooling, helping to significantly reduce production time and overall manufacturing costs.

◆ Advantage

- Complex Structures Printing. Enables the production of complex geometries and large build volume for one-piece molds without traditional mold assembly
- Material Compatibility. Supports a wide range of thermoplastic grades, including high-performance, fiber-reinforced, and recycled plastics
- Controlled accuracy. Reduces dimensional deviations and minimizes errors caused by multi-part assembly
- Automatic feeding system to support continuous printing 24 hours per day
- Self-developed CNC control system. Supports continuation of printing after the resumption from power off without the need to return to the home position
- Cost-Effective Mold Production. Uses thermoplastic pellets, making prototyping and mold production highly economical

◆ Ideal Applications

- It is mainly used for large-scale industrial molds (such as automotive molds and molds for wind power casting components), cost-sensitive batch mold production (such as molds for precast construction components), and molds that require high structural strength (such as reusable molds for sand casting processes)

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◆ Technical Data

Molding technology	Fused granular fabrication
Molding dimensions	(L*W*H) 3000 * 2000 * 1000mm
Machine dimensions	(L*W*H) 4104 * 3067 * 3100 mm
Optional nozzle diameter	2-6mm
Nozzle heating method	Three-zone intelligent heating
Drive mode	Servo motor
Control system	Self-developed new generation CNC system
Machine weight	6000kg
Printing bed	Composite Plastic
The maximum temperature of the nozzle	≤350 degrees celsius (450 degrees celsius is optional)
Printing connection method	SD/USB/Wi-Fi
Slicing supported formats	STL/OBJ/AMF/3MF/STP/STEP
Automatic feeder	Integrated
Slicing software	Kings studio
Power supply voltage	Three-phase AC 380V
Granular dryer	100kg tank, 6kW, 2.5kW, Three-phase AC 380V±7%, 12A, 50/60Hz, 0.6MPa, 200liters/minute
Materials	PC+ABS/PETG+GF/PP+GF/PA+GF/ABS+GF/PPS/PC/PA etc.

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