

FGF-3000HPRO

Kings Industrial FGF 3D Printers

Large Format, High Speed, Low Material Cost



◆ Overview

FGF-3000HPro uses granular and polymer composite material, which features with low material cost, fast printing speed, high product strength and outdoor resistance. It supports high-performance materials such as PPS, PPSU, and PEI-CF, meeting the demanding requirements for high temperature resistance, high strength, and dimensional stability in the production of composite molds, jigs, fixtures, and industrial tooling.

◆ Advantage

- **One-Stop Hybrid Manufacturing**
Combines modular additive and subtractive workflows with versatile materials to deliver micron-level precision for complex, high-performance parts
- **Compact & Automated Design**
Integrates a lightweight 200kg three-in-one architecture with an automatic feeding system to streamline production space and workflow
- **Optimized Thermal Control**
Features a fully enclosed sheet-metal housing to ensure optimal heat preservation and highly effective temperature insulation during printing
- **Smart Real-Time Monitoring**
Utilizes a capacitive multi-touch screen, LED status strip, and digital progress bar for intuitive operation and process tracking
- **Safety Assurance**
Incorporates an integrated emergency stop button to guarantee immediate response and user safety at all times

◆ Ideal Applications

- It is mainly used for large-scale advanced manufacturing (such as complex components for the aerospace, automotive, marine, and medical sectors), diverse industrial molds (such as rapid composite molds, sanitary ware molds, and casting patterns), and high-performance tooling (such as high-strength, heat-resistant jigs and fixtures)

◆ Technical Data

Molding technology	Fused granular fabrication
Additive printing size	(L*W*H) 3000 x2000 x1000mm
Subtractive processing dimensions	(L*W*H) 3000x2000x1000mm
Machine dimensions	(L*W*H) 8060 x 4080 x 4480mm
Working surface temperature	120°C
Printing bed	Aluminum platform
Optional nozzle diameter	4-12mm
Nozzle heating method	Four-zone intelligent heating
The highest heating temperature	450°C
Maximum extrusion	50kg/h
Print connection	USB
Slicing supported formats	STL/OB/AMF/3MF0
Compressed air pressure	0.6MPa
Automatic feeder	Integrated
Control system	Self- developed new generation CNC system
Slicing software	Kings studio
Power supply voltage	Three-phase AC 380V
Rated power	70kW
Machine weight	16000kg
Materials	PC+ABS/PETG+GF/PP+GF/PA+GF/ABS+GF/PC+CF/PPS/PC/PA etc.



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