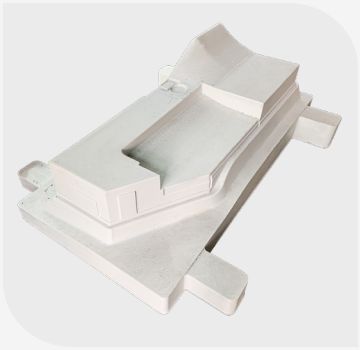
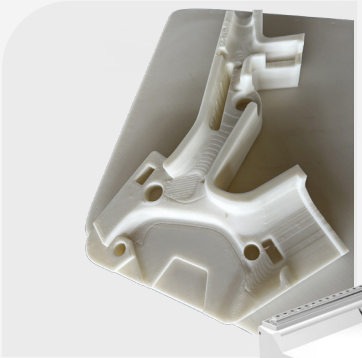
Kings®
3D Printing

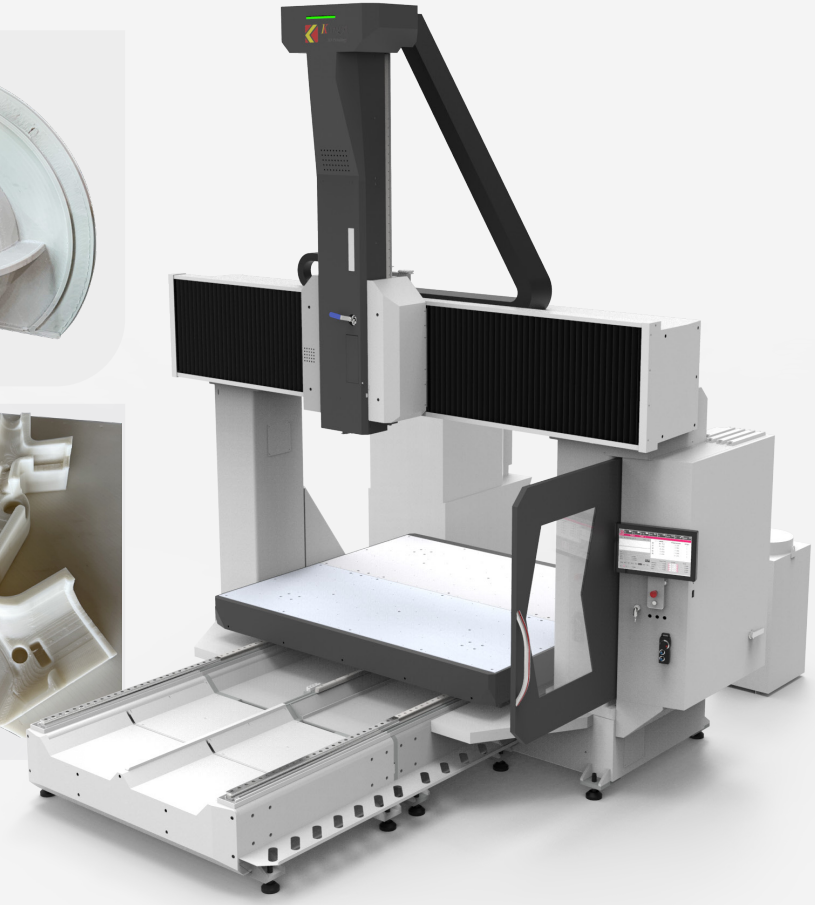
FGF-2420PRO

Kings Industrial FGF 3D Printers

Large Format, High Speed, and Combination of
Additive & Subtractive







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◆ Overview

Kings FGF-2420Pro is large-format, industrial pellet extrusion 3D printers known for fast printing speed (max 30kg per hour), low material cost (using pellets instead of filament), and production-level reliability. It is widely used to create large, strong industrial parts, jigs, fixtures, and molds for industries like automotive, aerospace, and construction, offering massive material cost savings (up to 90%) and high throughput. It is integrated with 5 axes CNC milling function for final finishing of parts.

◆ Advantage

- Large Build Volume for One-Piece Molds. Print full-scale molds and tooling in a single piece.
- High-Speed, High-Output Printing. Screw extrusion system delivers up to 30kg/h, producing large molds rapidly and reducing lead times.
- Hybrid Additive + Subtractive Workflow. Combines printing and optional CNC milling for precise, smooth mold surfaces ready for production.
- Cost-Effective Mold Production. Uses thermoplastic pellets, making prototyping and mold production highly economical.
- Material Versatility. Supports a wide range of thermoplastic grades, including high-performance, fiber-reinforced, and recycled plastics.
- Automatic feeding system supports continuous printing 24 hours per day.
- Energy-Efficient Heating Control. Multi-zone independent heating activates only necessary areas, reducing energy consumption during mold printing.

◆ Ideal Applications

- It is widely used for manufacturing final glass fibler or carbon fiber mold for automotive, marine, aerospace, construction, casting industries.

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◆ Technical Data

Molding technology	Fused granular fabrication
Molding dimensions	(L*W*H) 2400 * 2000 * 1350mm
Dimensions	(L*W*H) 4400 * 4100 * 4700 mm
Optional functions	Oblique printing, vertical printing function
Working surface temperature	≤120 degrees Celsius
Printing bed	Aluminum platform
Optional nozzle diameter	3-16mm
The highest temperature of the nozzle	≤450 degrees Celsius
Nozzle heating method	Four-zone intelligent heating
Print connection	SD/USB/WiFi
Slicing supported formats	STL/OBJ/AMF/3MF/STP/STEP
Compressed air pressure	0.6MPA
Material particle diameter	1-5 mm
Storage hopper volume	100kg
Automatic feeder	(integrated)
Power supply voltage	3-phase AC 380V
Rated power	60 kW
Machine weight	6000 kg
Materials	ABS/ABS Fire Retardant/ABS+GF/ABS+CF/PETG/PETG Fire Retardant/ PETG+GF/PLA/ASA/ASA+GF/TPU/PC/PA/PP/PA+CF/PC+CF/PEI+CF etc.

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