

FGF-800HT

Kings Industrial FGF 3D Printers

High-performance Thermoplastics Compatibility



◆ Overview

Kings FGF-800HT is an industrial pellet 3D printer specifically designed for printing high-performance engineering thermoplastics. Featuring an actively heated chamber (up to 100°C), a CNC-based motion control system, and an automatic pellet feeding system, it delivers reliable, high-quality printing for functional prototypes, tooling, structural components, and material development.

◆ Advantage

- Heated Build Chamber (Up to 100°C) provides a stable thermal environment for engineering-grade, high-temperature materials, minimizing warping and improving part quality
- CNC Motion Control System ensures stable 24/7 operation and precise motion control for enhanced printing accuracy and repeatability
- Equipped with absolute encoder servo motors to retain position information and resume printing automatically after power restoration
- Automatic Feeding System supports pneumatic automatic feeding with material level detection and integrated pellet drying for continuous, unattended operation
- User-friendly Interface with intuitive capacitive touchscreen with a redesigned UI for simple operation and one-click printing
- Real-time Status Monitoring with LED status indicators and on-screen progress display provides clear visibility of machine operation
- Delivered as a fully assembled system, requiring only power connection for installation

◆ Ideal Applications

- It can be used for tooling and manufacturing, high-performance fixture and jig production, functional structural components, material research and development and engineering prototypes.

◆ Technical Data

Molding technology	Fused granular fabrication (FGF)
Molding dimensions	(L × W × H) 800 × 600 × 800 mm
Machine dimensions	(L × W × H) 1630 × 1125 × 1735 mm
Heated build plate temperature	≤120°C
Build surface	Aluminum build plate
Optional nozzle diameter	0.4-2.0 mm
Maximum nozzle temperature	≤450°C
Nozzle heating method	Dual-zone intelligent heating
Printing connectivity	SD / USB / Wi-Fi
Supported file formats	STL / OBJ / AMF / 3MF
Compressed air pressure	0.6 MPa
Compatible materials	PP / PETG / ABS / ASA / PA / PLA / ABS-CF / PPS-CF, etc.
Pellet size	1-5 mm
Material dryer capacity	25 kg
Granular dryer	25 kg Tank / 3.5 kW / 220 V ±10% / 15.9 A / 50/60 Hz / Single-phase / 0.6 MPa / 200 L/min
Automatic feeder	Pneumatic Feeding
Chamber heating	Chamber temperature up to 100°C
Drive system	Servo motor
Power supply	Single-phase AC 220 V
Rated power	10.6 kW
Machine weight	350 kg



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