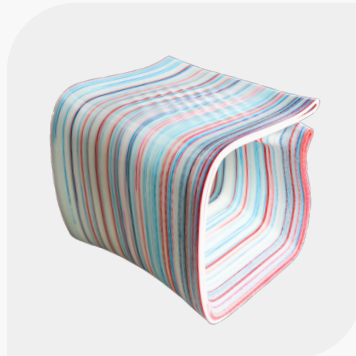
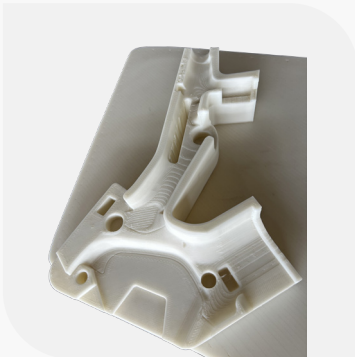


# FGF-1200PRO

## Kings Industrial FGF 3D Printers

Large Format, High Speed, Low Material Cost



# FGF-1200PRO

**Kings**

## ◆ Overview

Kings FGF-1200Pro is a large-format granular 3D printer with advantages of fast printing speed (max 8kg per hour) and large printing size. It uses granular and polymer composite materials for printing, which features great mechanical properties and strong durability, excellent cost-effectiveness and environmental friendliness. It is widely used for sculpture, theme park, movie prop, art craft, window display, public attraction, furniture, advertising, signage, mining, oil & gas and molding industries.

## ◆ Advantage

- Automatic feeding system
- Self-developed CNC control system
- Continuation of printing after the resumption from power off
- Built-in water-cooled circulating temperature control unit
- Automatic leveling system with non-contact laser ranging (0.01 mm accuracy)
- Using 18-bit high-precision servo motors with the mechanical accuracy of 0.01mm
- The sealed dust-proof precision module to significantly enhance the lifespan of the components and the stability of the printing
- Supporting the use of composite materials as the base on the aluminum alloy printing platform, and achieving ABS and PETG+GF printing without printing bed heating

## ◆ Ideal Applications

- It is widely used for sculpture, theme park, movie prop, art craft, window display, public attraction, furniture, advertising, signage, mining, oil & gas and molding industries.



## ◆ Technical Data

|                                       |                                                                                                                           |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Molding technology                    | Fused granular fabrication                                                                                                |
| Molding dimensions                    | (L*W*H) 1200*1000*1000mm                                                                                                  |
| Machine dimensions                    | (L*W*H) 1990*1895*2250mm                                                                                                  |
| Optional nozzle diameter              | 2-6mm                                                                                                                     |
| Nozzle heating method                 | Three-zone intelligent heating                                                                                            |
| Storage hopper volume                 | 40kg                                                                                                                      |
| Drive mode                            | Servo motor                                                                                                               |
| Rated power                           | 9.2kW                                                                                                                     |
| Average power                         | 2.1kW                                                                                                                     |
| Machine weight                        | 950kg                                                                                                                     |
| Working surface temperature           | ≤120 degrees celsius                                                                                                      |
| Printing bed                          | Aluminum platform                                                                                                         |
| 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                                                                                                  |
| Compressed air pressure               | 0.6MPa                                                                                                                    |
| Material particle diameter            | 1-5mm                                                                                                                     |
| Automatic feeder                      | Integrated                                                                                                                |
| Power supply voltage                  | Single-phase AC 220V±10%                                                                                                  |
| Rated current                         | 41.8A                                                                                                                     |
| Frequency                             | 50/60Hz                                                                                                                   |
| Displacement                          | 200 liters/minute                                                                                                         |
| Granular dryer                        | 50kg tank/4.5kW/220V±10%/20.5A/50 or 60Hz/Single phase/0.6MPa/200L per min                                                |
| 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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