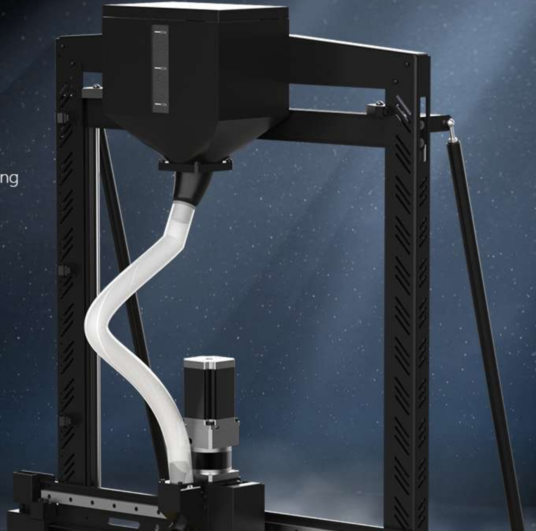
PIOCREAT

G5Ultra

NEW EXPERIENCE OF INDUSTRIAL-GRADE FGF 3D PRINTER



≤420℃

Nozzle segmented heating

≤120℃

Rapid heating hotbed

220mm/s

Max. print speed

PIOCREAT
GREEN INNOVATION, SMART FUTURE

*The data is provided by PioCreat Lab and is for reference only.

Green Innovation, Sustainable Future

This is a green innovation, supported by PIOCREAT G5Ultra pellets made of renewable plastic are used for 3D printing, printing with recycled pellets, flakes or regrind materials brings us closer to the dream of a circular economy.

rPLA

3D printing using recycle materials.

Pellet Recycling Solutions

Material Recovery › Re-manufacturing of Pellets › PIOCREAT 3D Printing › Model

After Scrapping

Supports Multiple Materials and Saves Production Costs

Accept print granular materials with a melting point below 420°C within 2-5mm.Support PLA\PC\ABS\PETG\PETG-GF/PP/TPU/PA-CF/ABS-CF/PC-CF and some modified and composite materials.

Traditional Fiberglass Sculpture		**FGF printing PETG material sculpture**
5mm thick, 1㎡ glass fiber cloth + resin		**5mm thick, 1㎡ PETG material**
COST Simple molds and foam sculpture, total cost around 800 RMB.	✗ ✓	COST Consumes 9kg of consumables Total cost is about 225 RMB.
TIME 4-6 hours	✗ ✓	TIME About 2 hours

PERSONNEL Skilled workers are needed. Generally, training takes 2-3 months to master the basics. 5-6 months to become proficient.	✗	✓	**PERSONNEL** Just need to know how to use a computer. 2-3 days of training to master the basics. One week to be able to operate normally.
ENVIRONMENT Messy with odor, Environmental assessment required for some areas.	✗	✓	**ENVIRONMENT** Clean and relatively friendly

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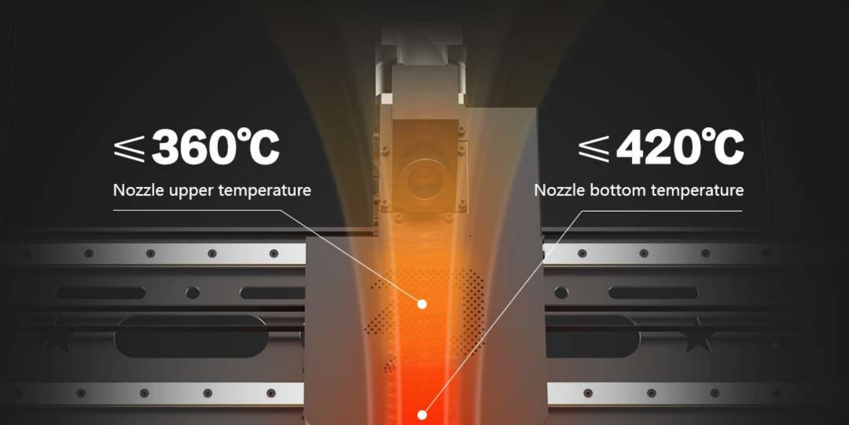
Screw Nozzle Design + Segmented Heating

Self-developed new generation screw extrusion nozzle design, the maximum nozzle temperature is 420 ℃, the extrusion strength is strong, and the 0.4-3.0mm nozzle is flexibly selected for fast and stable printing.



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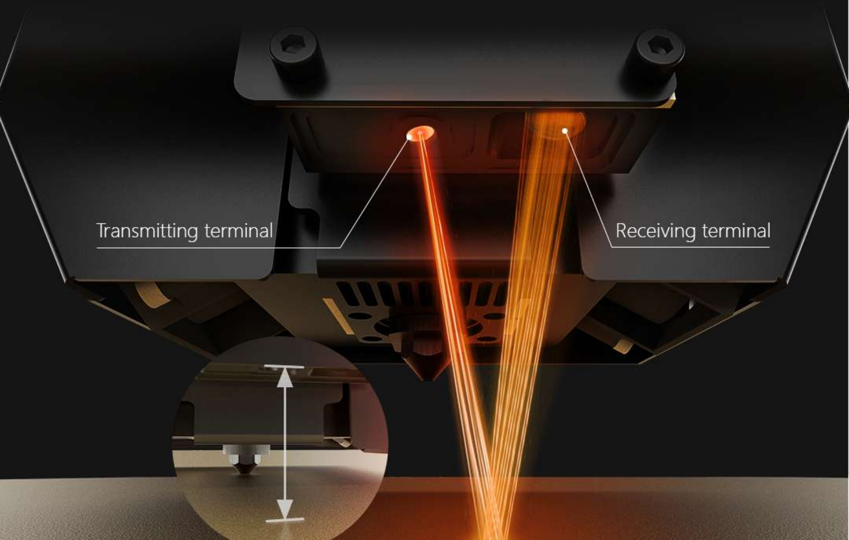
Intelligent Laser Ranging 64-point Leveling Technology

Using laser sensor non-contact measurement technology,
the leveling time can be significantly shortened
and the leveling accuracy can be improved;
Not only ensure the real-time and high safety of the leveling
operation under the high temperature platform,
but also avoid interference with the model during the printing process.



Double Protection, Safe and Secure

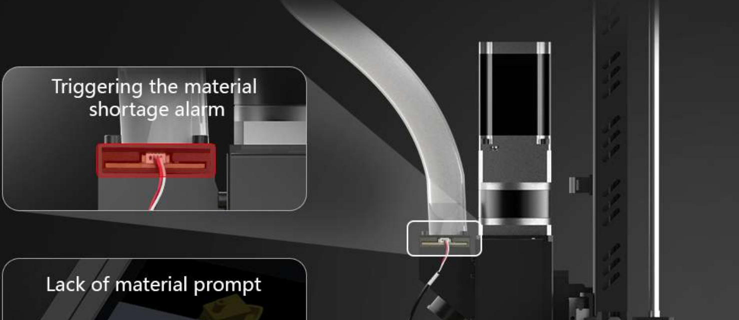
Supports material shortage alarm and material cut-off continue printing function, providing you with double protection. Automatically storing printing records after material cut-off, you can continue printing after replenishing printing materials, with a printing success rate of over 95%.

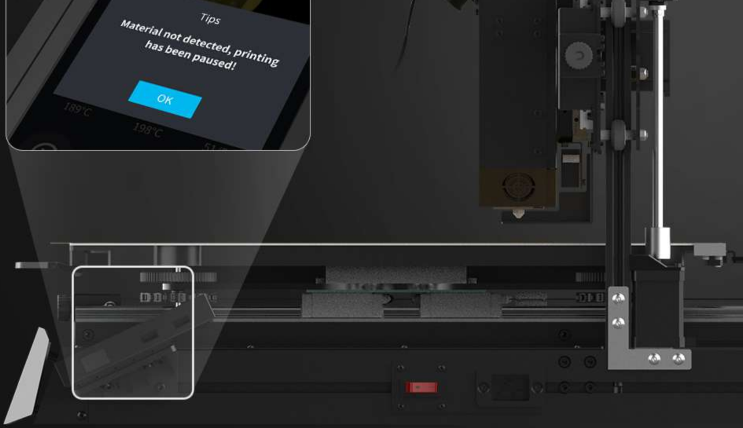
Lack of Material Alarm

Display pop-up reminder

Material Cut-off Continue Printing

Success rate over 95%





Material not detected, printing has been paused!

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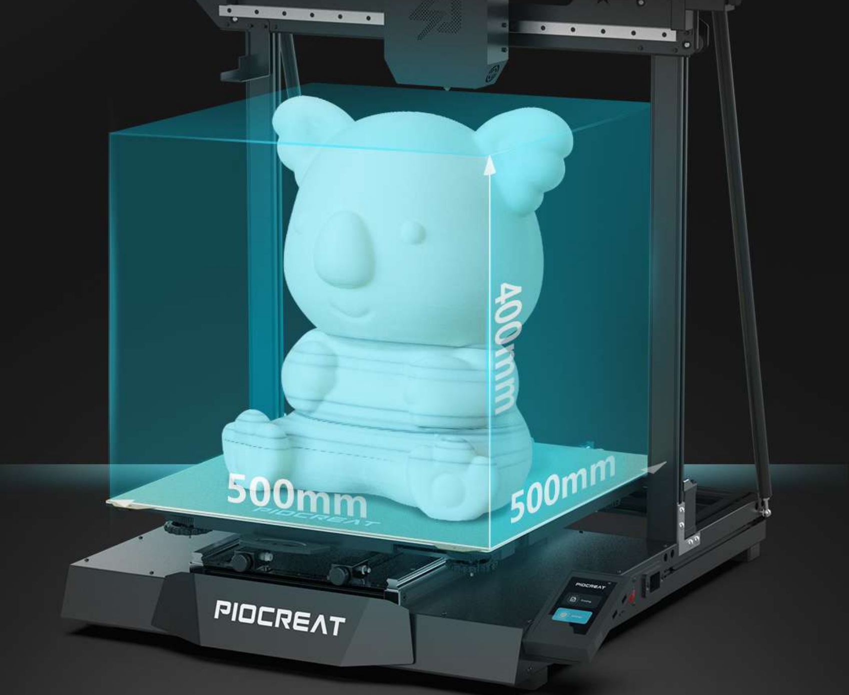
100L Large Volume Printing

500 x 500 x 400mm maximum printing size,
Equivalent to a model with a printing capacity of 100L at a time.

100L
Max. printing volume

25kg
Max. load weight



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Max.Printing Speed

220 mm/s

Hopper Capacity

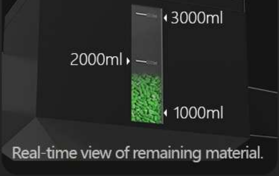
3000 ml

No need to frequently replenish materials

Heating Bed Temperature

5min heating to 60℃, 8min heating to 90℃.

Remaining Material Visualization



Real-time view of remaining material.

Quick Discharge

Quickly clean up the remaining material and facilitate material replacement.

Easy to Take Model

Gently bend the platform board to remove the model.

Replaceable Nozzles

Optional 0.4-3.0mm diameter nozzle

Standard

0.8 mm

1.0 mm

2.0 mm

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Application Field

Model case

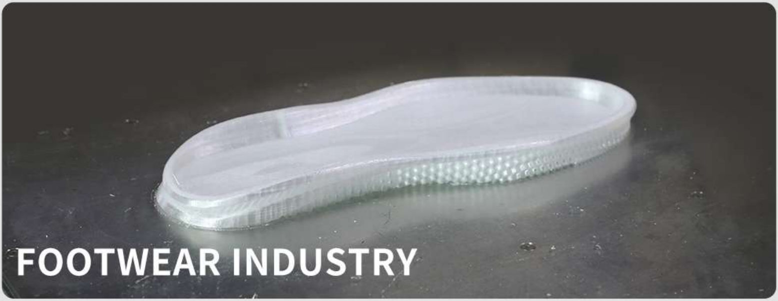
MATERIAL TESTING

MOLD

INDUSTRIAL PARTS

HOUSEHOLD SUPPLIES

CRAFT SUPPLIES



Material Verification and Proofing

1. Customer Industrial Design
2. Print Assessment
3. Customer Sends Materials
4. Material Printing Test

5 Customer Model Acceptance

6 Contract Printing

7 Training and Support

Multiple materials and Accessories, Enjoy Official Support

ABS

ABS+CF

PLA

PETG

PETG+GF

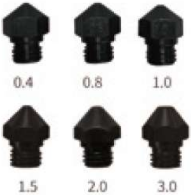
TPU

PP

PC+CF

PEEK

PAHT-CF



PEI magnetic platform

Nozzles of various types

Vacuum feeder

Extruder screw

Insulation cover

Product Parameters

G5Ultra pellet 3D printer

Molding technology	FGF Fused Granules Fabrication
Pellet diameter	2-5mm
Voltage	AC100-110V & AC220-240V 50/60Hz
Rated power	1450W
Print size	500 x 500 x 400mm
Machine size	765 x 890 x 1040mm
Package Size	845 x 990 x 510mm

Print layer thickness	0.4-2.0mm (optional 3.0mm) Standard: 0.8mm / 1.0mm / 2.0mm
Nozzle upper temperature	≤360℃
Nozzle lower temperature	≤420℃
Heating bed temperature	≤120℃
Number of nozzles	1
Hopper capacity	3000ml
Discharging mechanism	Screw extruder
Maximum speed	220mm/s
Language	English、Chinese、German、Spanish、French、Italian、Japanese、Portugal、Russian、Turkish
File format	STL、OBJ
Printing mode	USB disk / WIFI
Slicing software	Piocreat_Slicer/Cura/Simplify3D
Nozzle diameter	0.2-1.0mm
Printing materials	PLA\PC\ABS\PETG\PETG-GF/PP/TPU/PA-CF/ABS-CF/PC-CF and some modified and composite materials
N.W.	42KG
G.W.	