

MD-400D

Faster High Temperature **IDEX** 3D Printer

« Ideal choice for 2 colors, 2 materials, and mass production printing »



Ten Advantages



5X Faster
Print Speed



400*400*400mm
Large Build Volume



IDEX System



Dual Colors &
Dual Materials Mode



Duplication
& Mirror Mode



350 degrees High
Temperature
Hot End



New Cooling
System Design



Camera & WIFI



Free Leveling



Input Shaper

5X Speed, Breakthrough in Printing Efficiency Once Again

MD-400D printing speed up to 300mm/s, 10000mm/s² Peak acceleration, only 0.02s speed up from 0 to 300mm/s, achieving ultra-high efficiency printing.

500mm/s

Travel speed

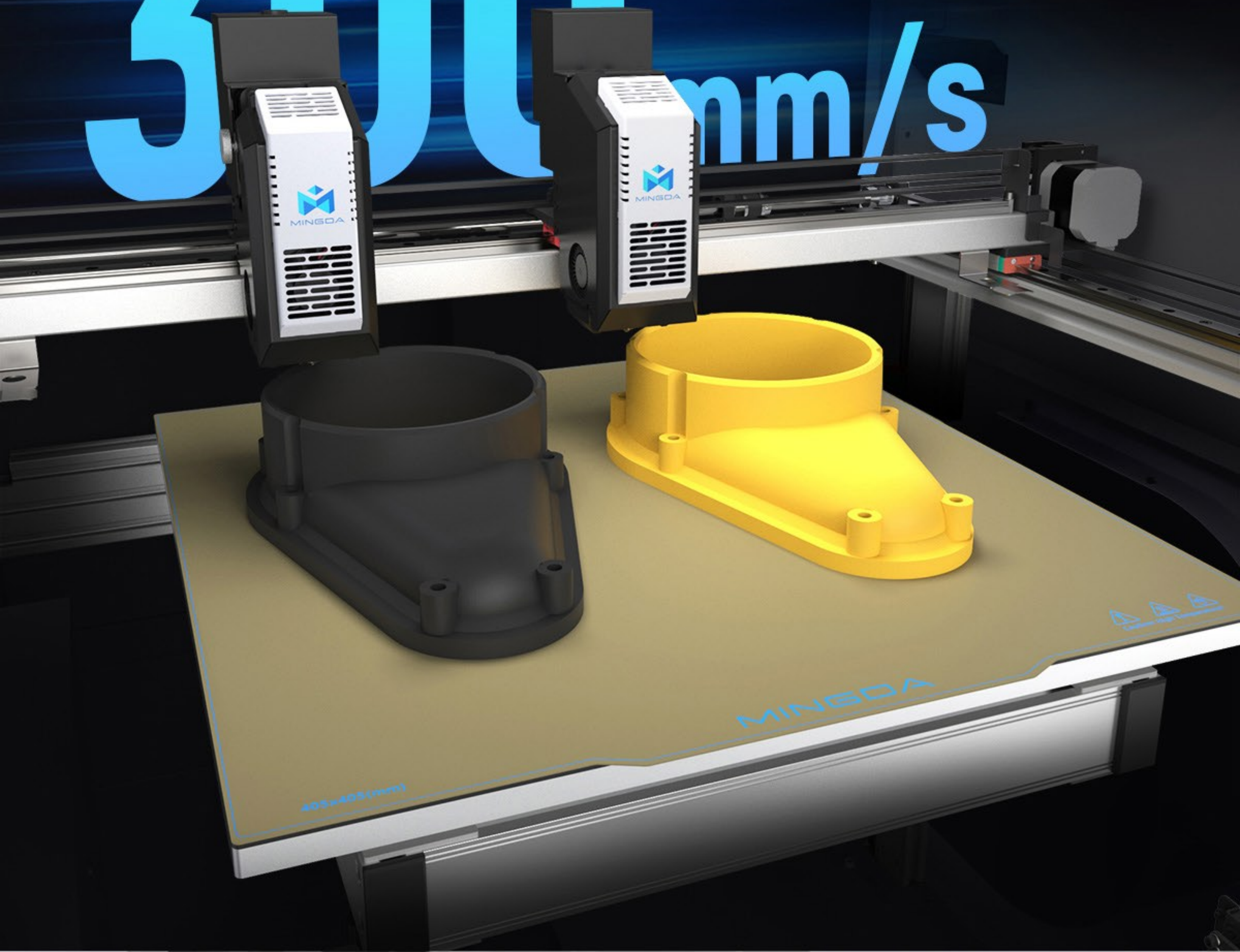
300mm/s

High-Speed

40mm³/s

Max Flow

300mm/s





Dual Extruders Working Independently

The dual extruders on the MD-400D work independently and are not bundled, allowing for flexible and precise control. When using only one extruder, the other extruder is moved away from the print area to prevent unwanted filament overflow onto the printed object. However, the extruders can also work simultaneously and independently if higher productivity is required.

Bike Helmet Case Sharing

Filament

PLA-HF + PVA

Model size

266*210*130mm

Speed

250mm/s

Printing time

34 hours



Compare other regular FDM large format printers on the market

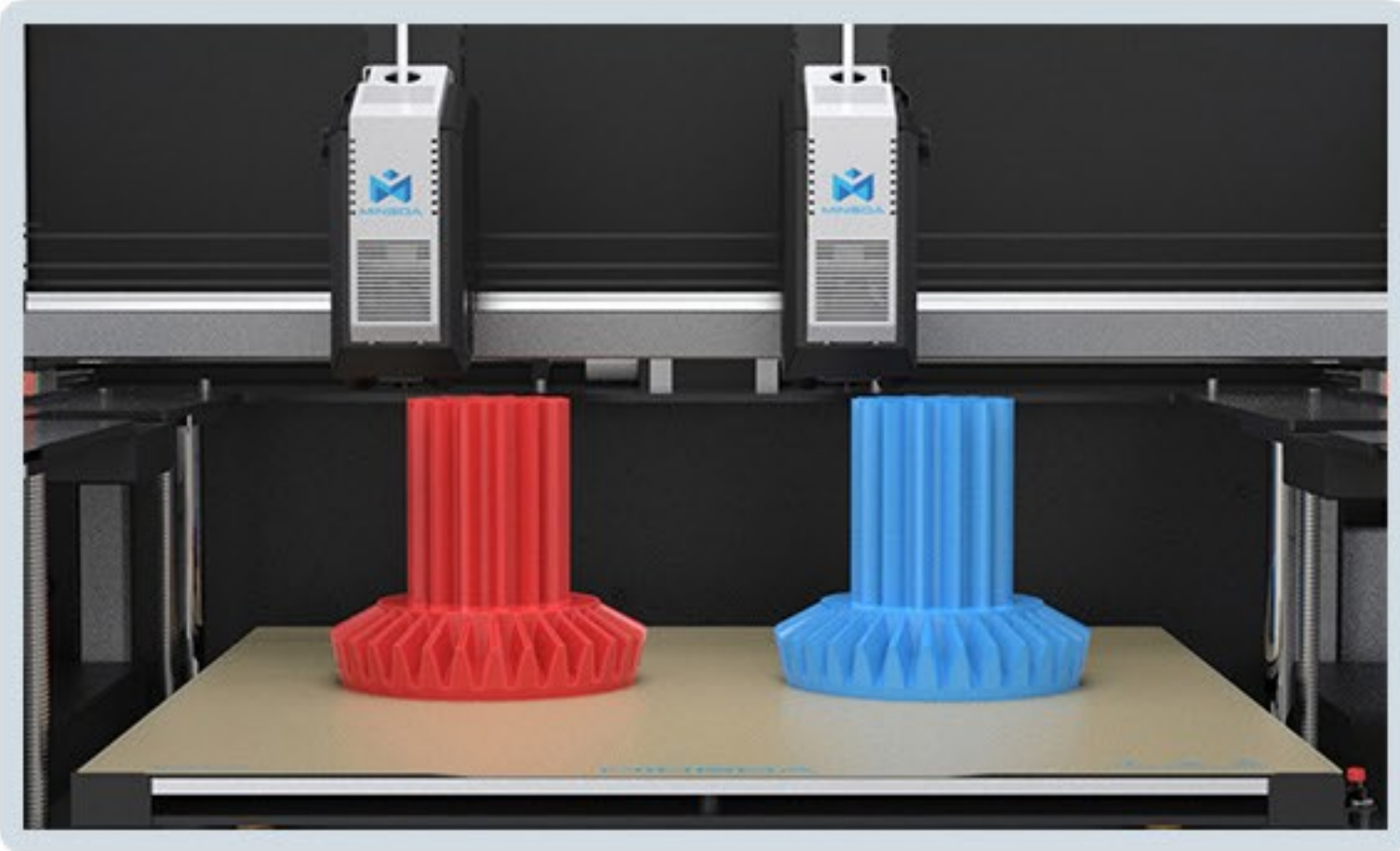
Filament: **Ordinary PLA**

Printing Speed: **50mm/s**

Printing Time: **4 days**

* The experimental data is for reference only

Four Printing Modes



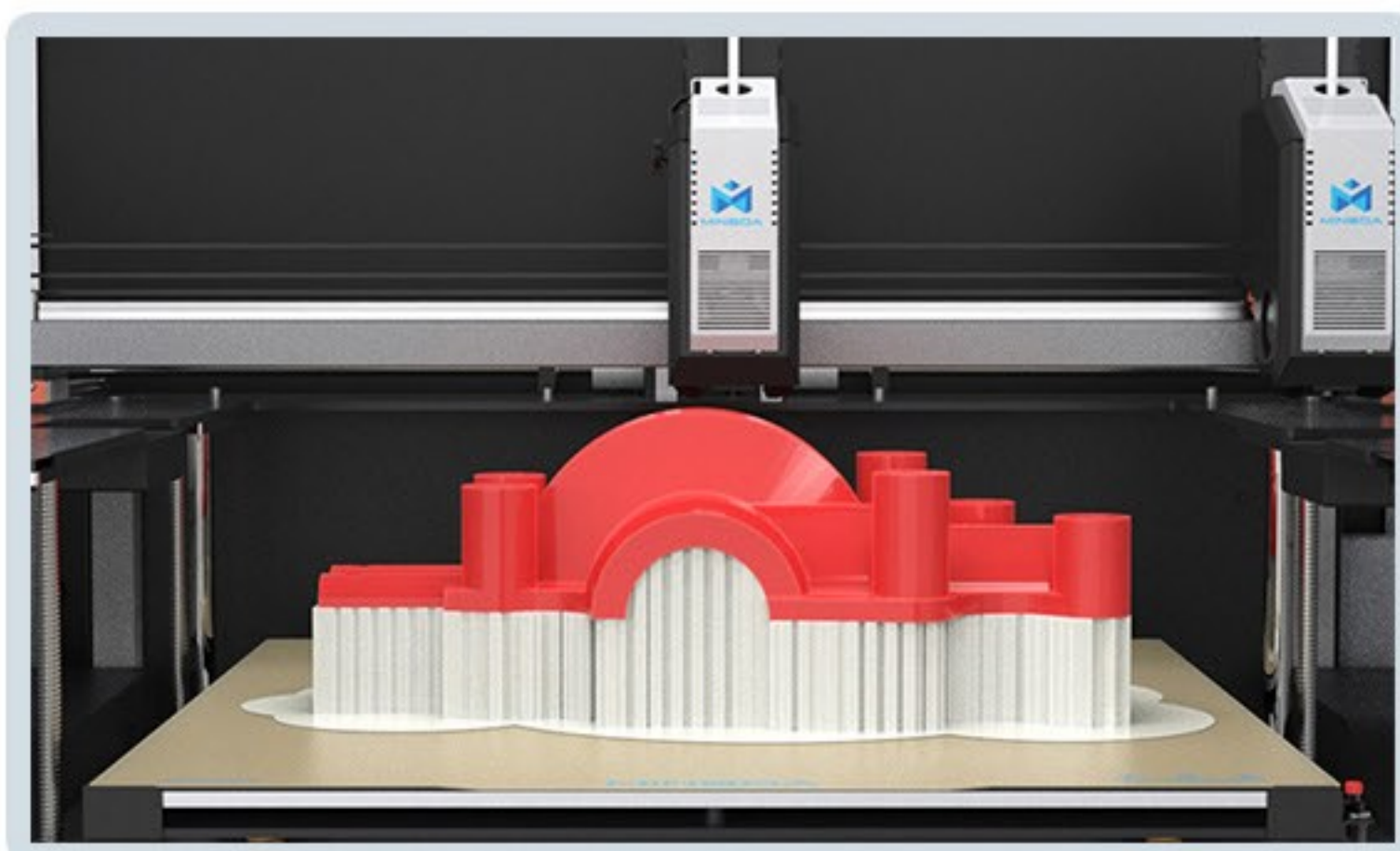
Duplicate Mode

Equivalent to 2 printers working,
achieve double productivity



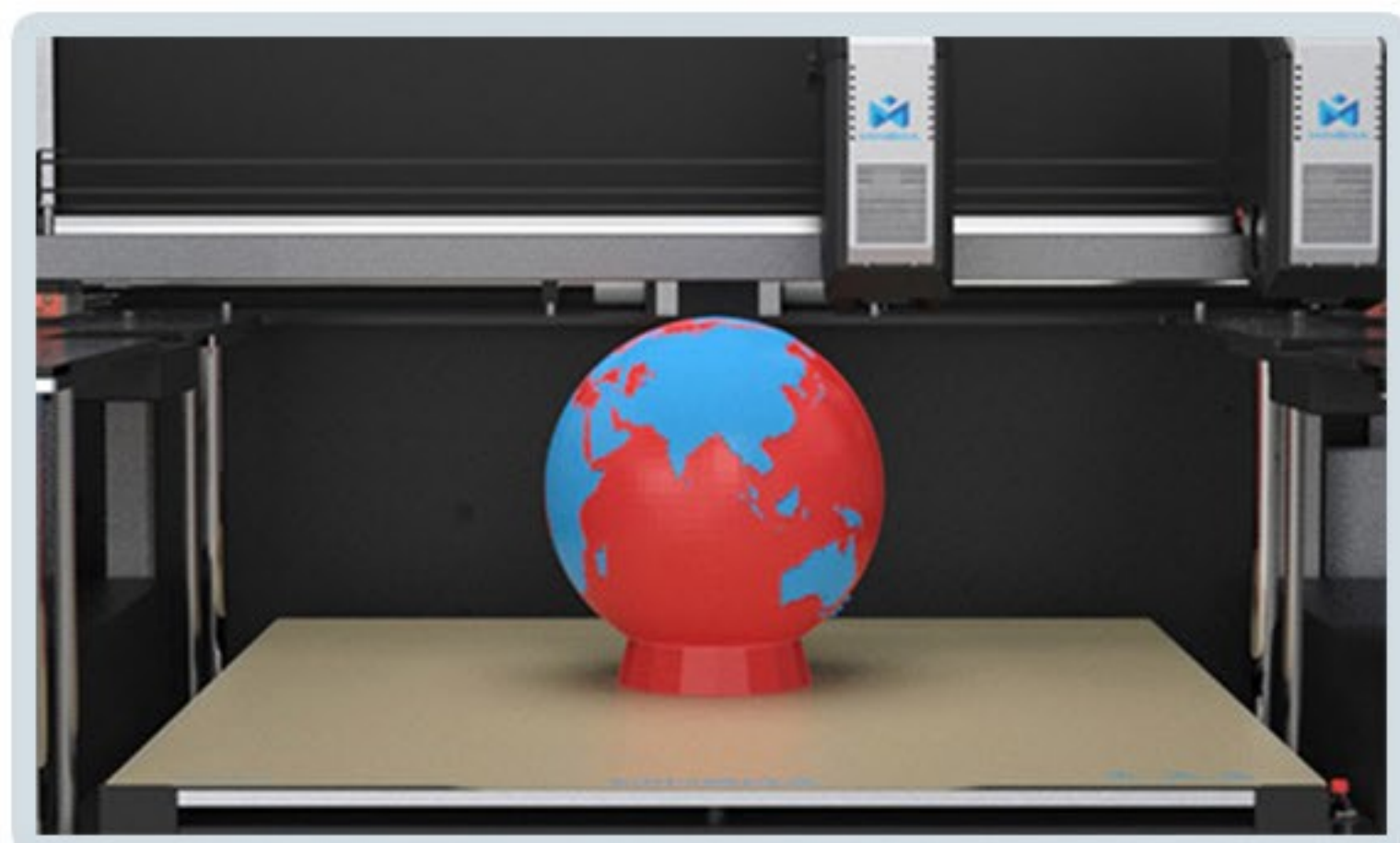
Mirror Mode

Support printing symmetrical models
while saving half the time



Support Mode

Print complex structural models,
complex models can also be printed
smoothly and with high precision



Dual-Color Mode

Allows printing different parts
of a model in 2 colors

350°C High Temp Printing

All Metal Hotend and Excellent material Hardened Steel Nozzle printing temperature up to 350 degrees. With constant accuracy, it can print carbon fiber and engineering filaments for a long time. No need to replace the hot end when printing PLA, PETG and other filaments.

HT

Higher than 250 degrees
(High Temperature filaments)

350°C

PET -CF	PA -CF25
PET -GF	PA -GF25
ABS -GF25	HtPA -CF
ABS -CF20	HtPA -GF
PA -CF	S-Mulit
PA -GF	S-HtPA

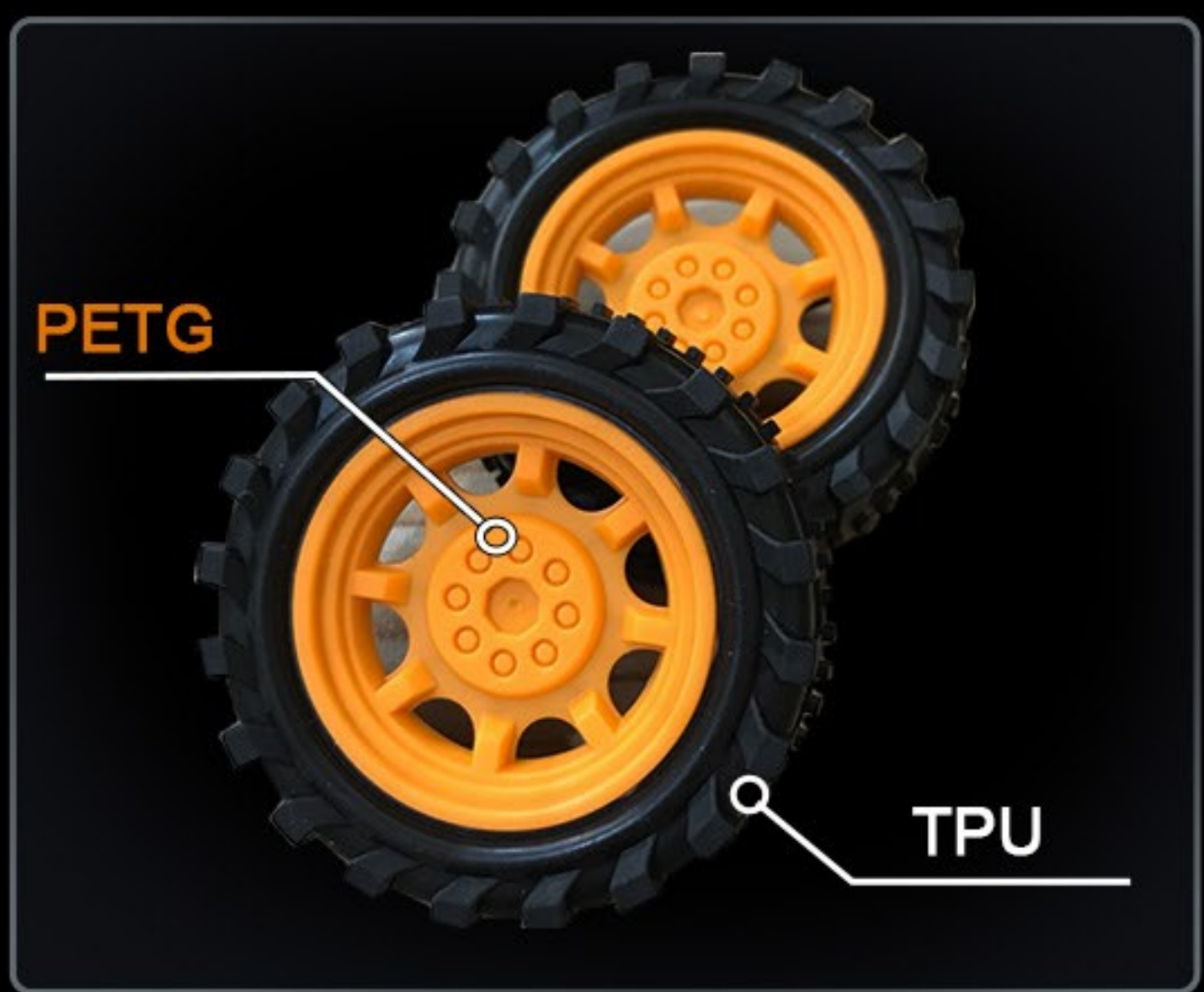
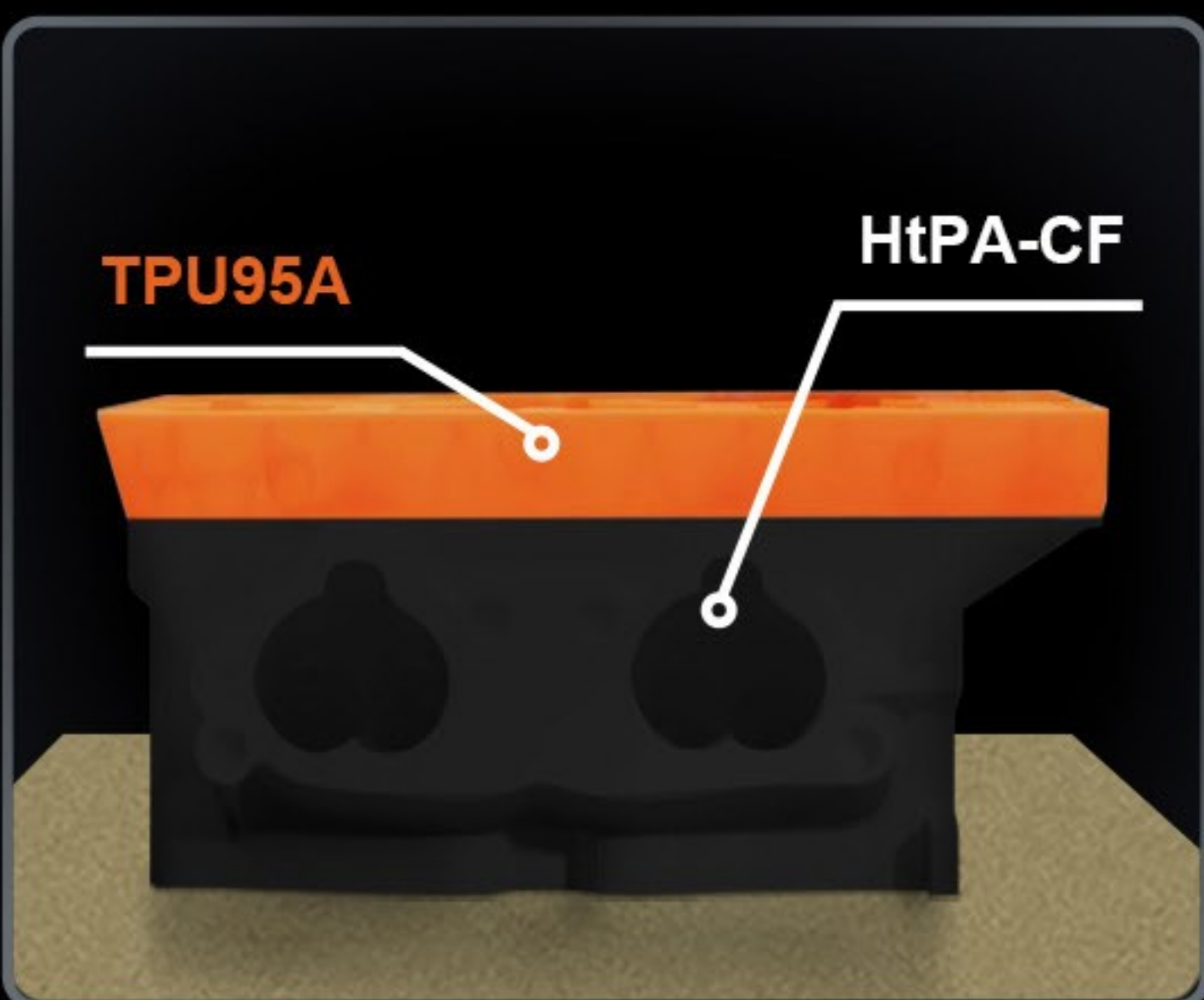
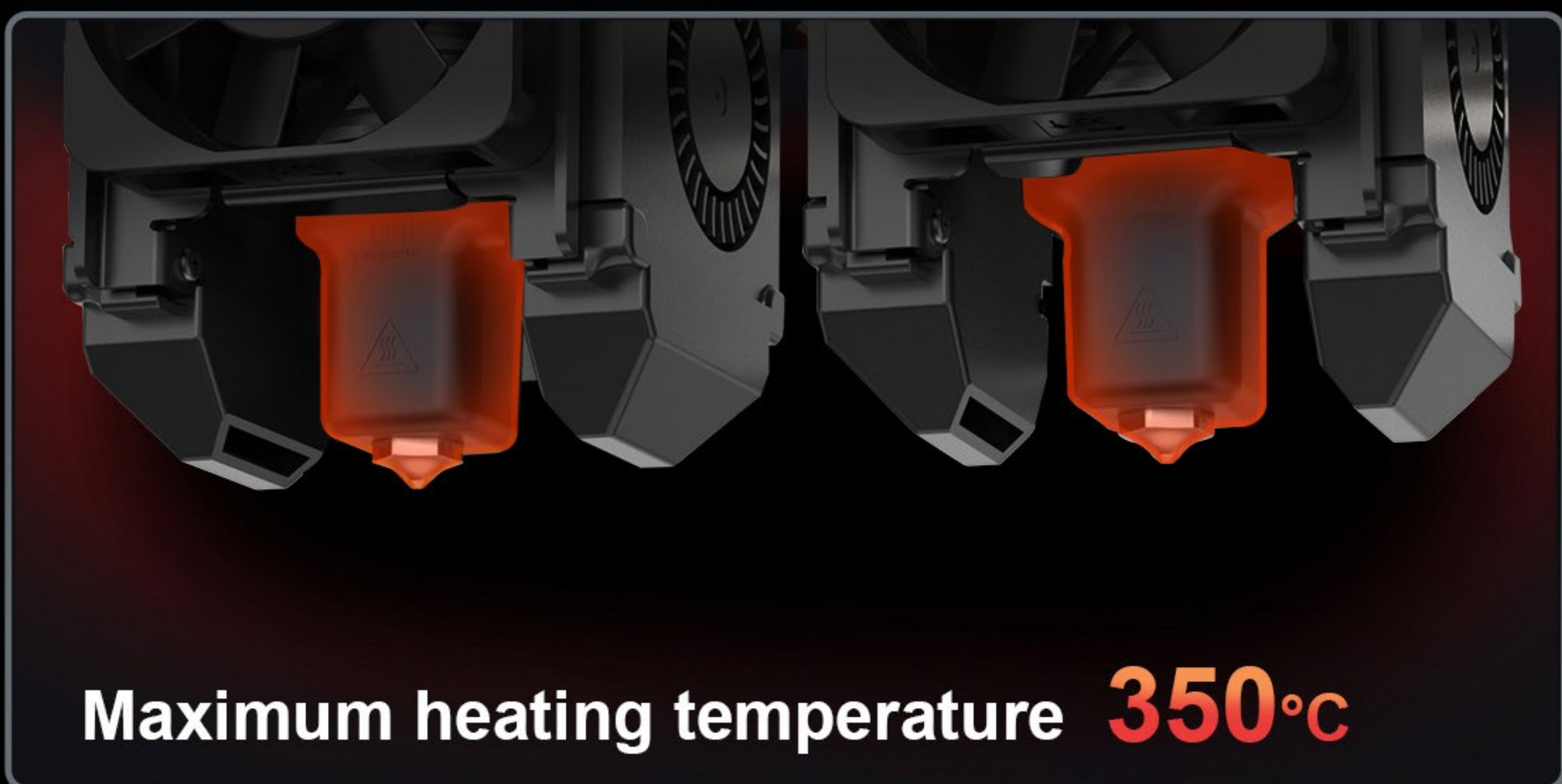


N

Below 250 degrees
(Normal filaments)

250°C

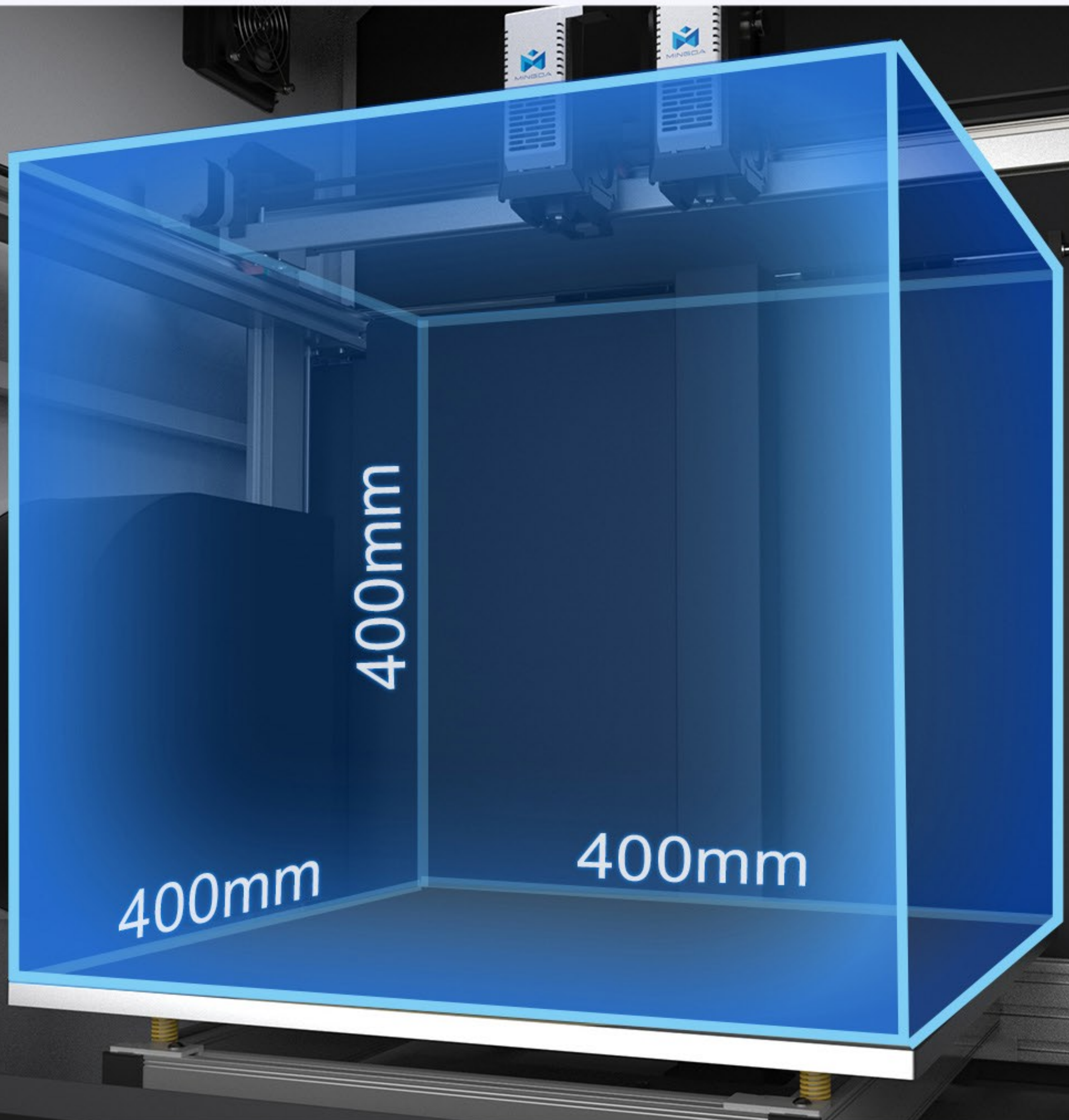
PLA
PETG
TPU -95A
PVA



Supports **TPU95A** and **HtPA-CF**,
while printing **TPU** and **PETG** simultaneously.

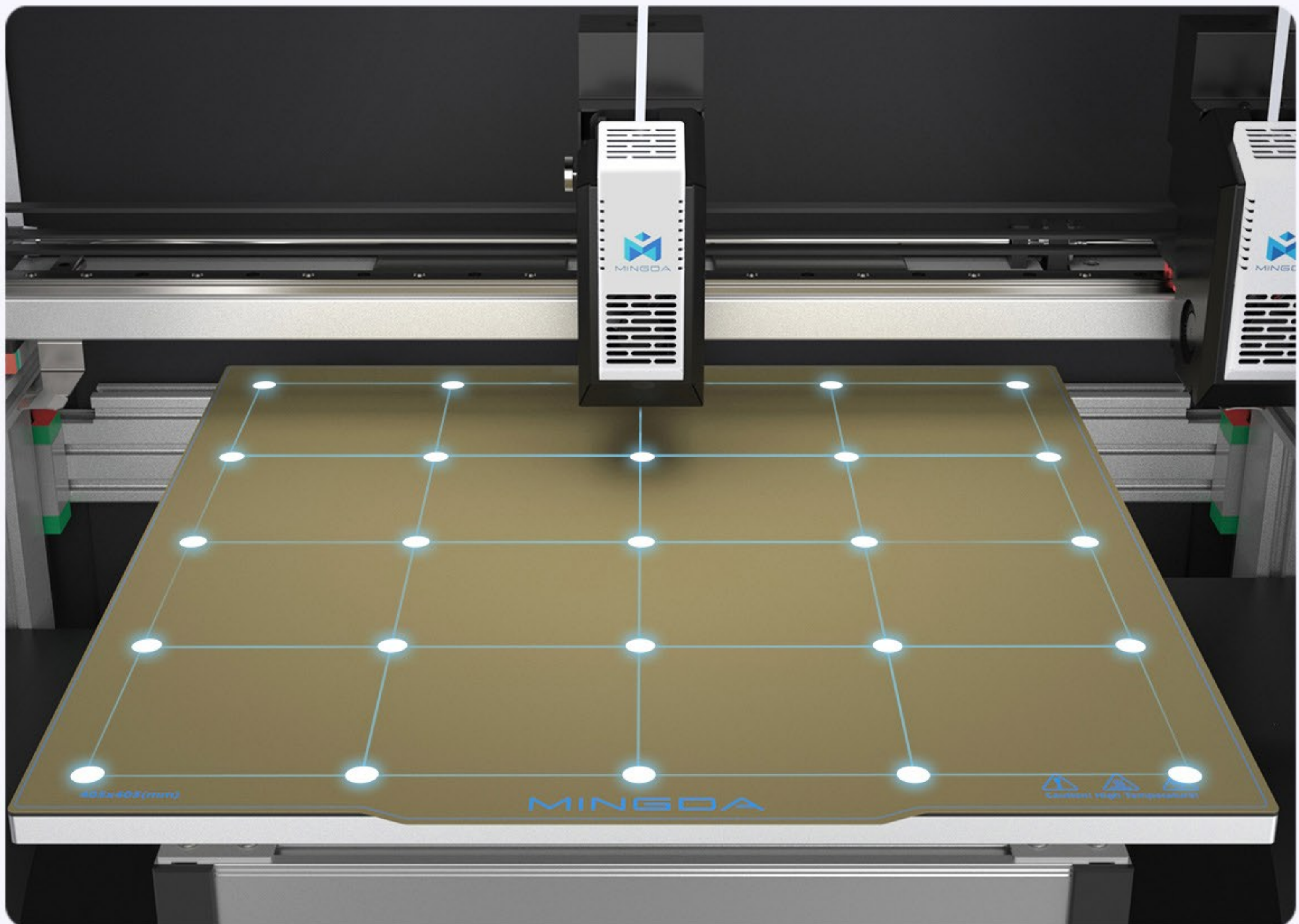
Large Build Volume

Printing size: 400mm*400mm*400mm;
meets most prototype printing needs.



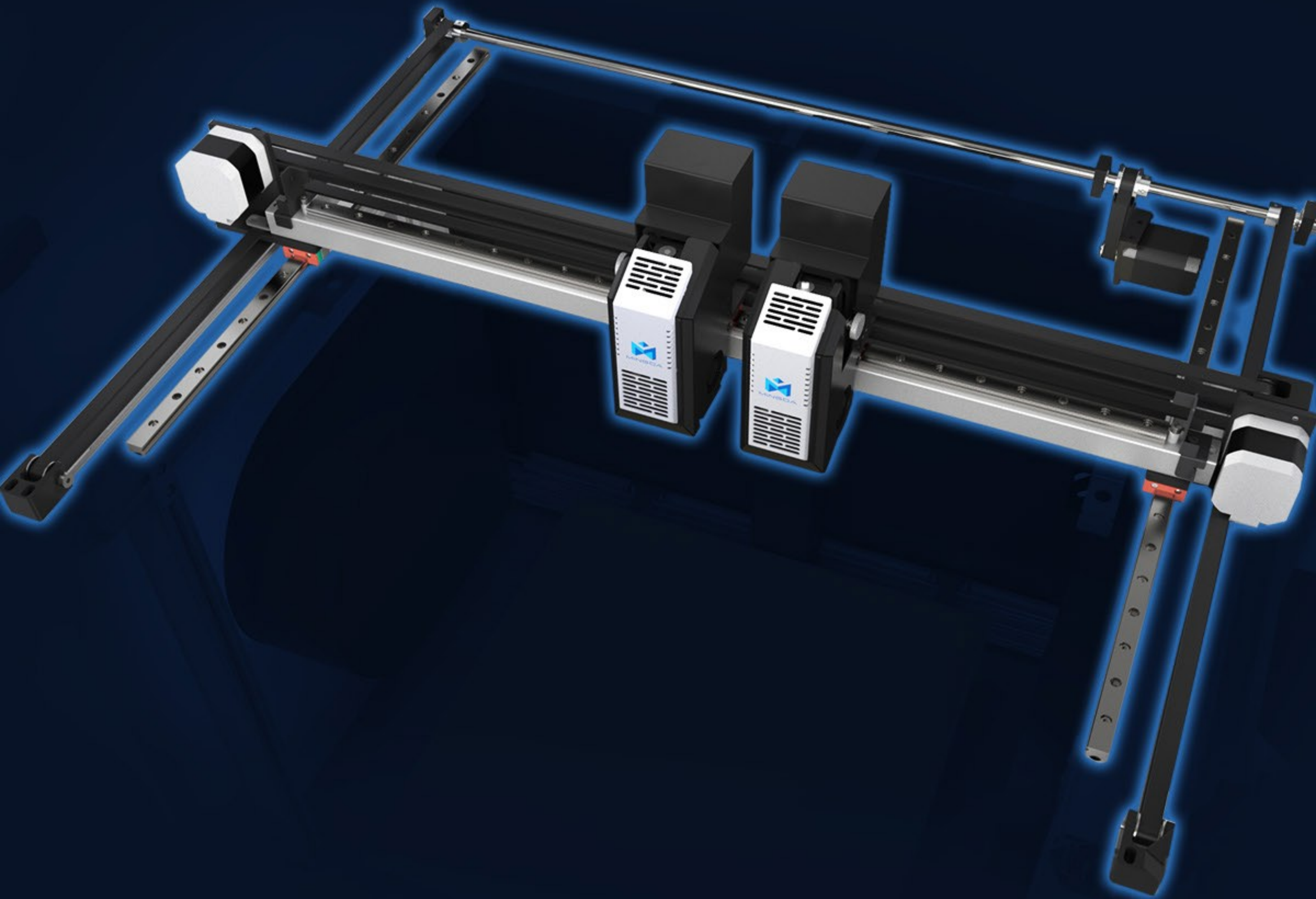
Hands-free Auto Leveling

The automatic leveling system greatly improves printing efficiency and quality stability. It helps to reduce failed prints caused by an unlevel build plate. The precise calibration of nozzle distance also enables 3D printers to print models with finer layer resolution.

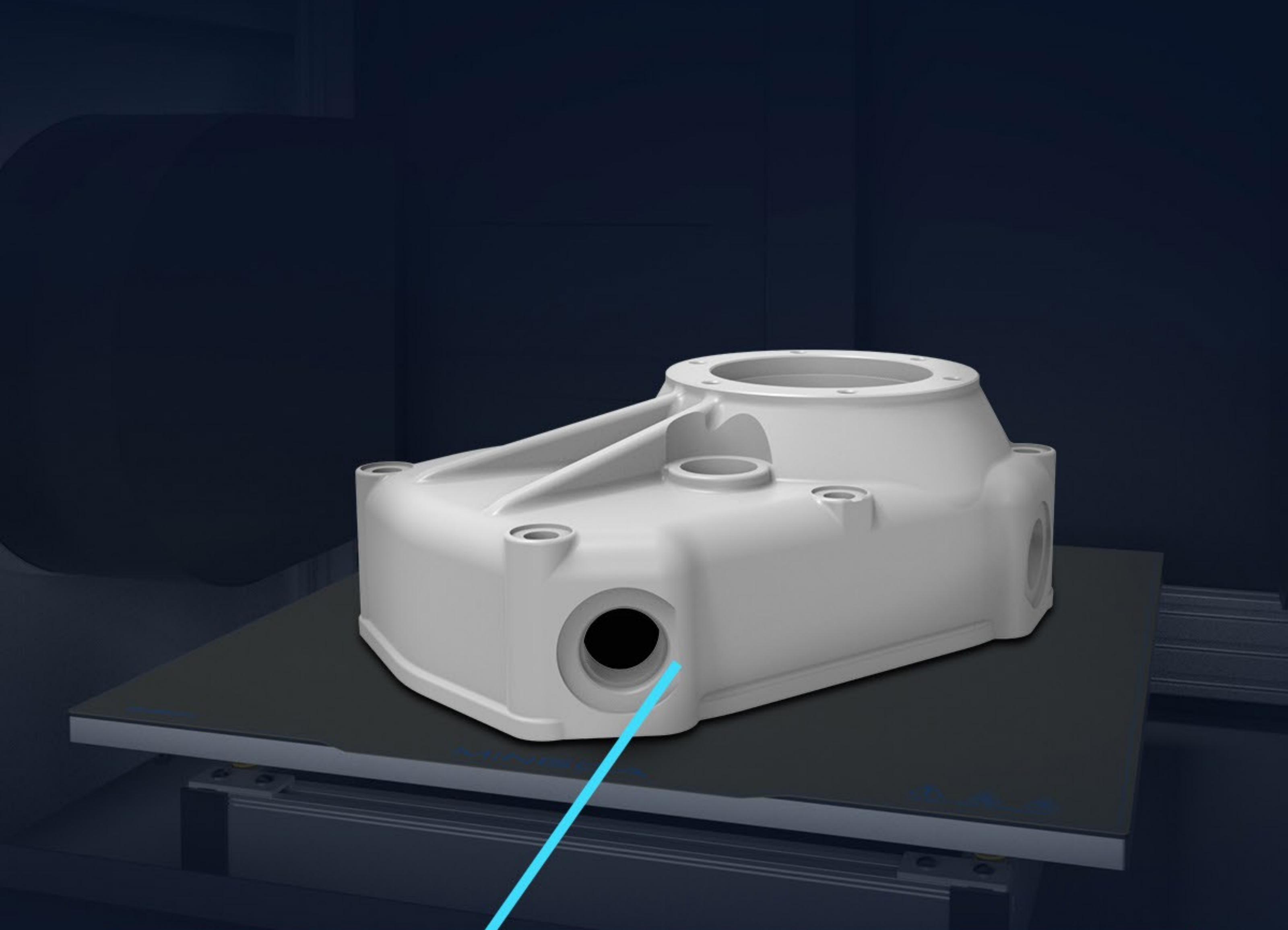


$\pm 0.1\text{mm}$ High Precision

Using modular guide rail structure to
ensure the stability and accuracy of the printing process

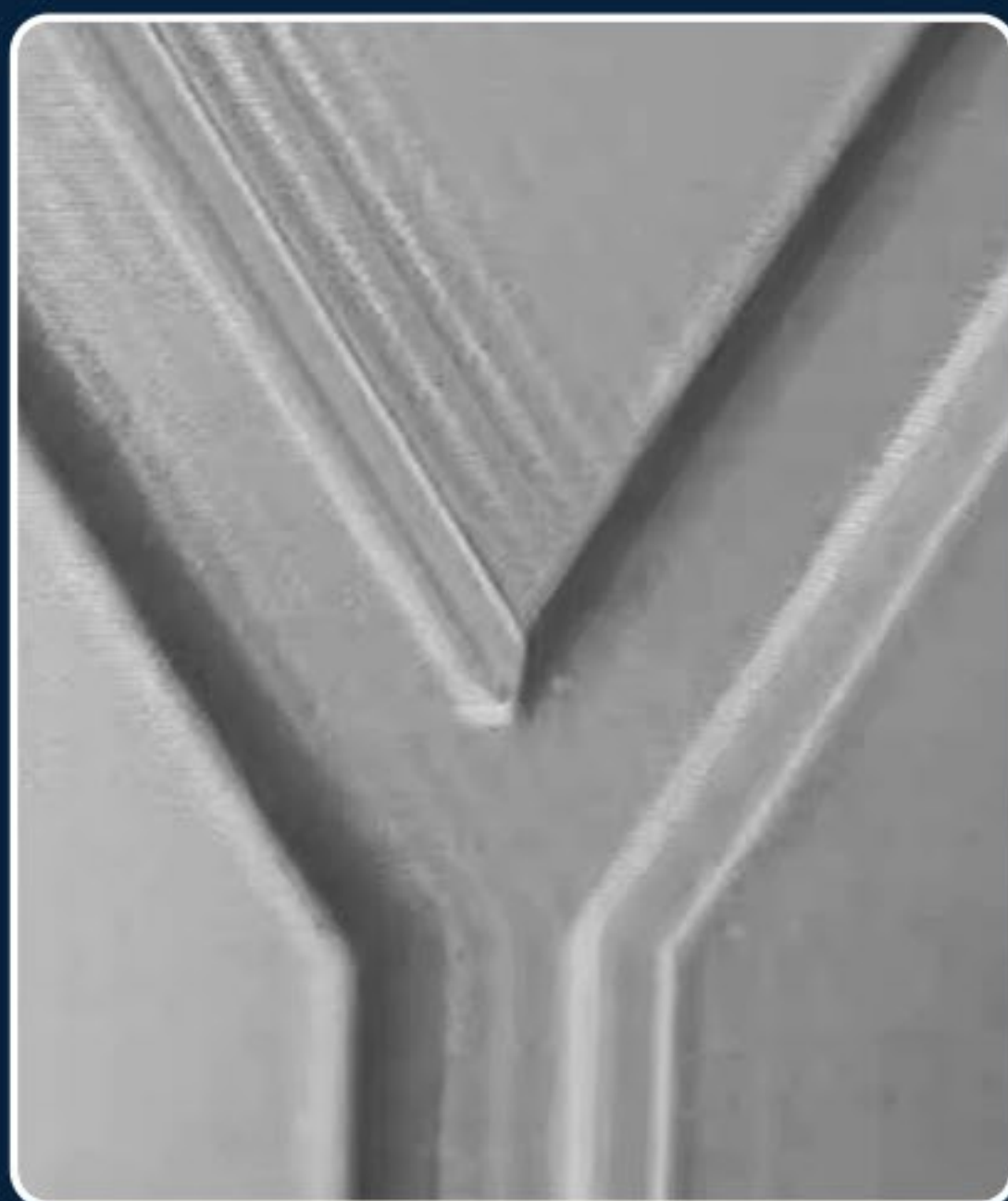


Excellent in Detail

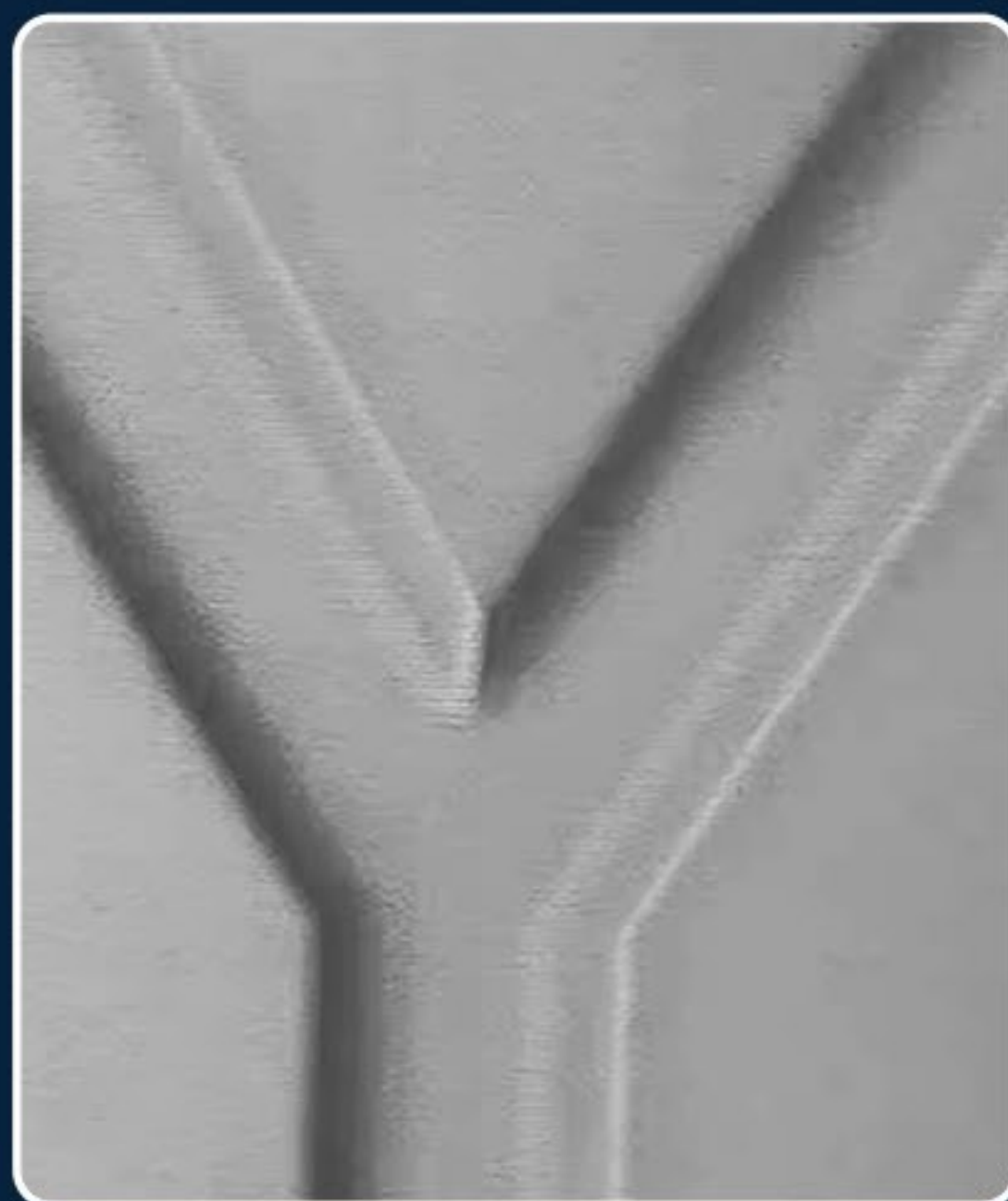


Input Shaper

Reduce vibration patterns and make the surface smoother



OFF



ON

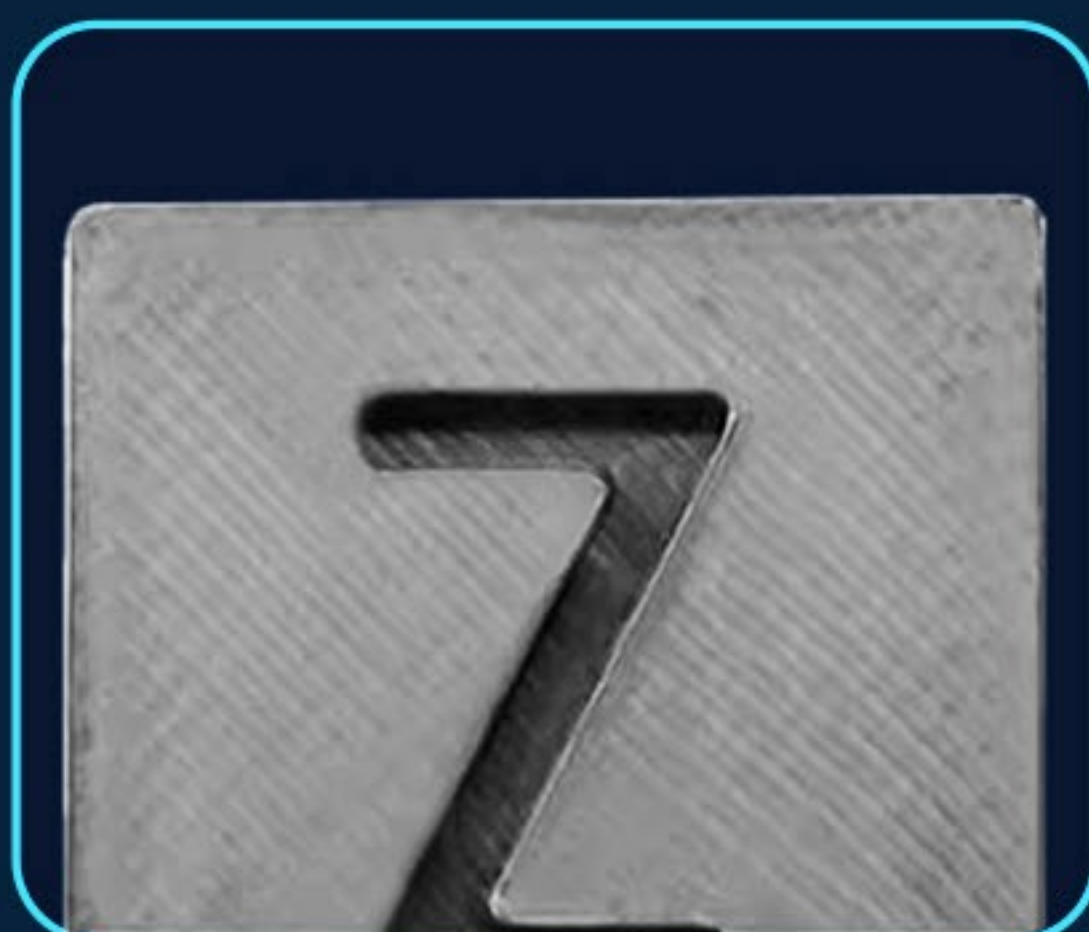


Flow Control

Improved print quality and accuracy. Flow control allows precise management of the amount of filament being extruded, reducing errors like under/over-extrusion. This leads to smoother prints with sharper details.



OFF



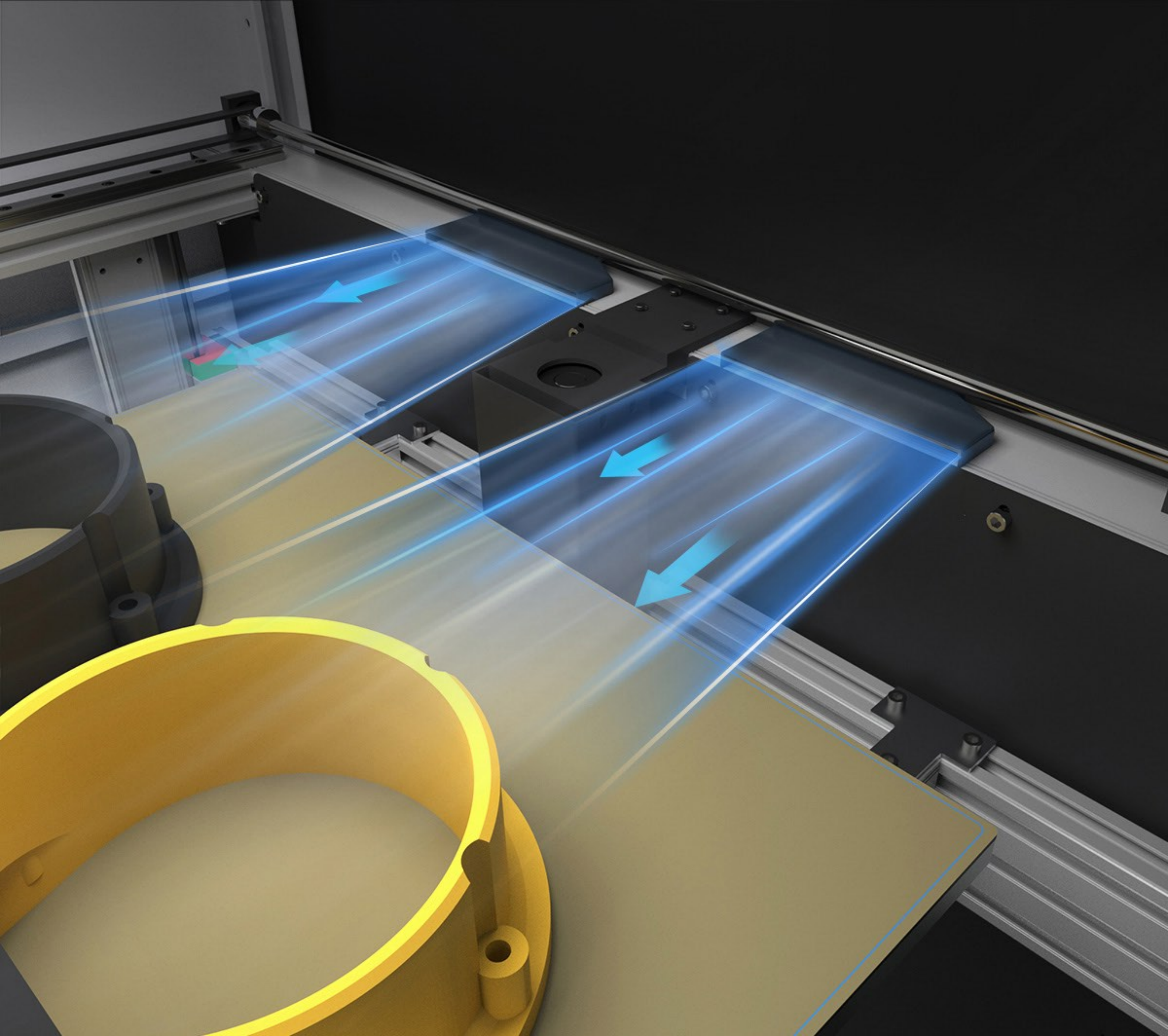
ON



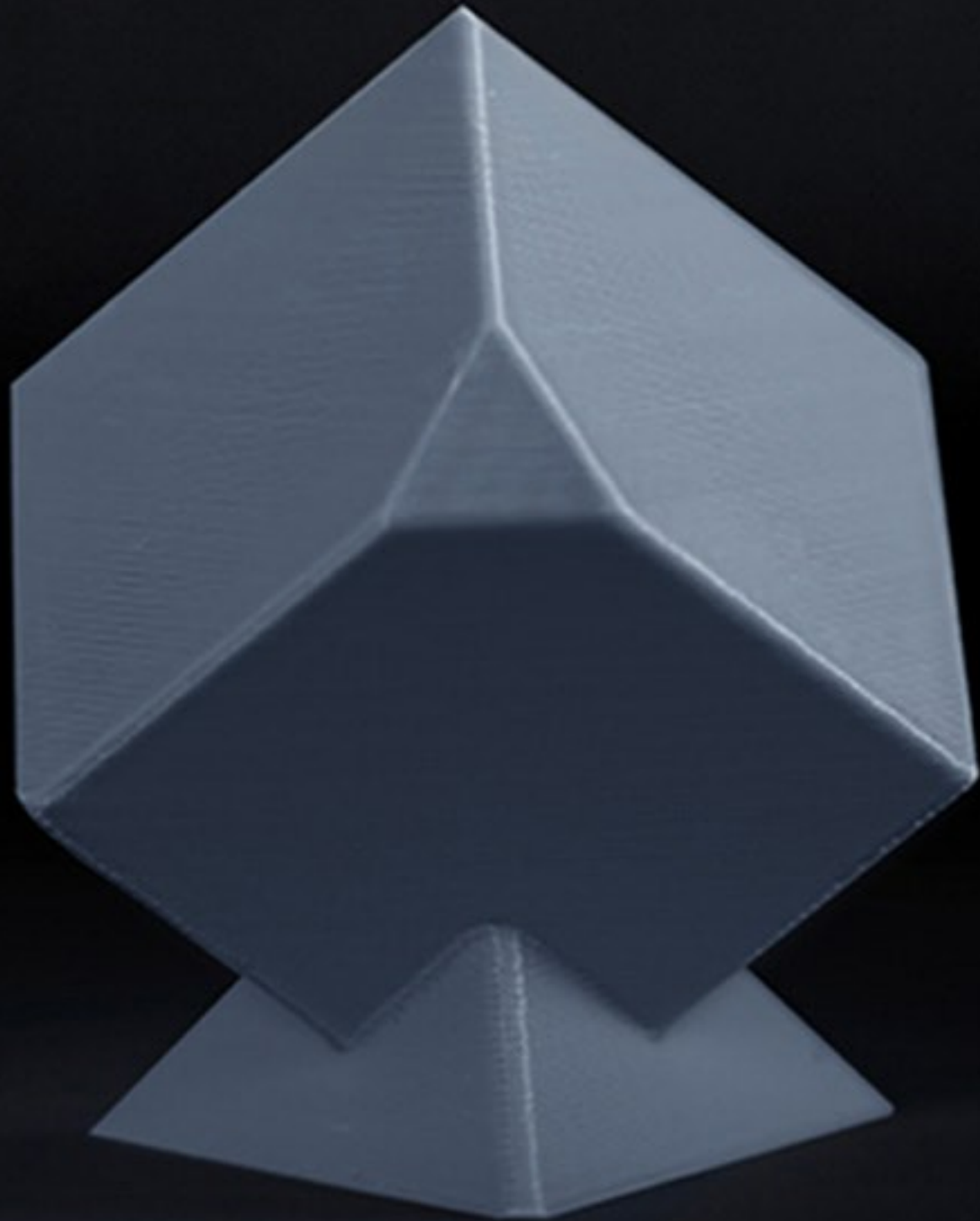
New Cooling System Design

The dual cooling system truly takes model cooling to the next level with an aerodynamic air duct design that blasts models with intensely powerful directed airflow for enhanced cooling capabilities, crafting perfect prints.

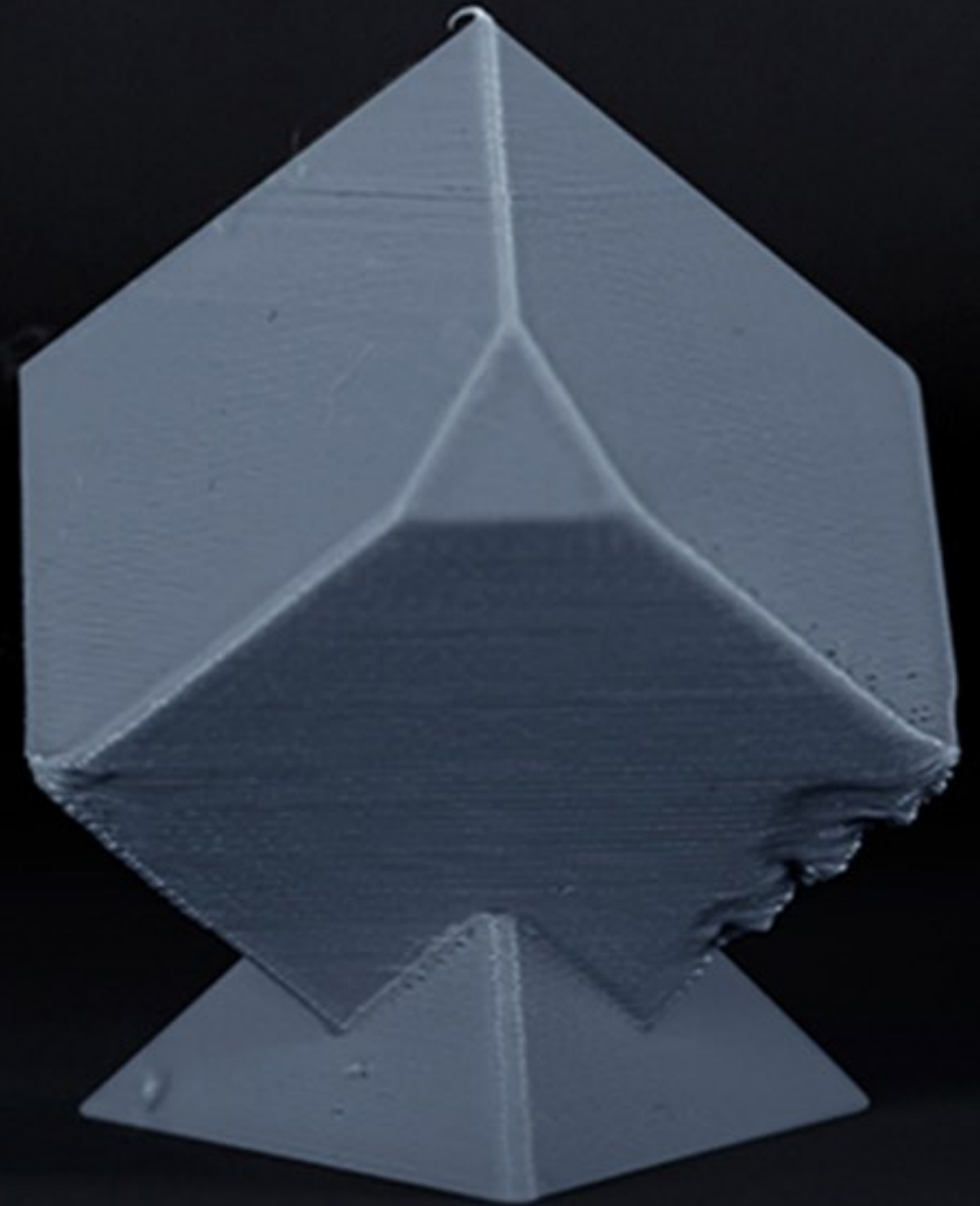




Speed cool solidification, effectively avoid stringing, warping



Mingda air cooling effect



Regular air cooling effect

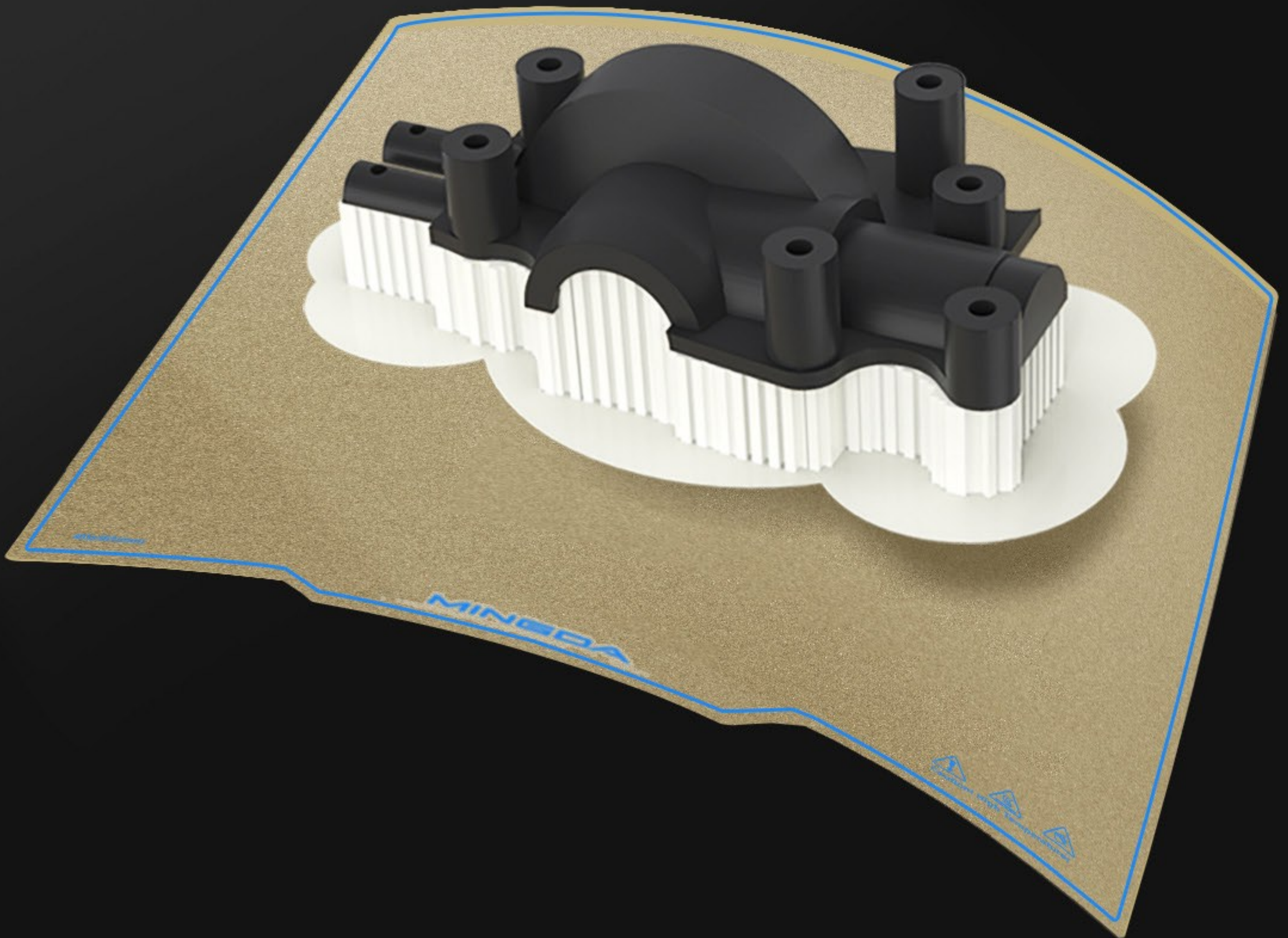
Remote Printing Multi-Machine Control

After being connected via WiFi or network cable, the MD-400D can be remotely printed and monitored in real time. At the same time, it also supports multi machine control, facilitating rapid mass production.



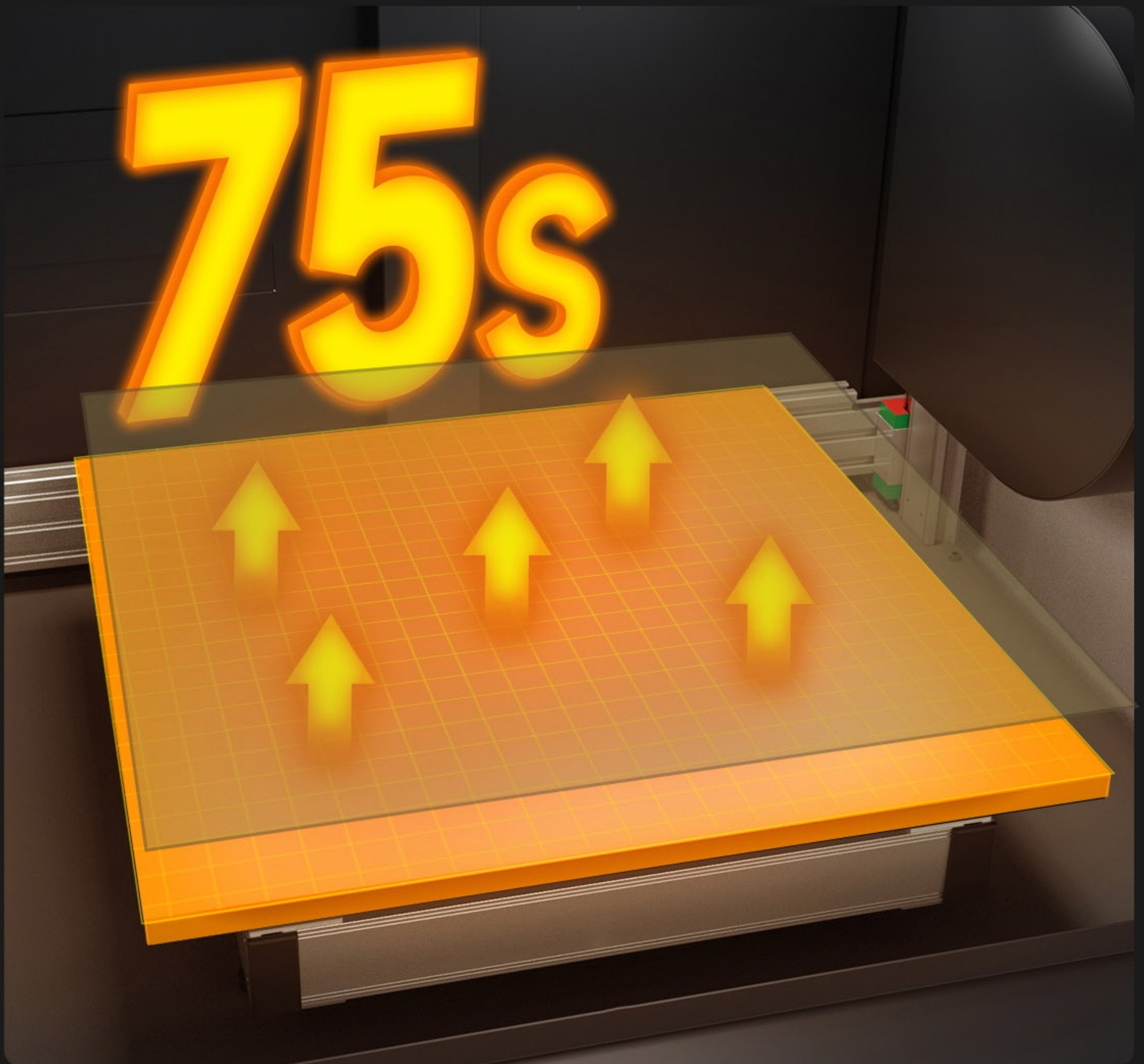
PEI Flexible Printing Platform

It has strong adhesion, high temperature resistance, and is suitable for various consumables. It can be easily removed by bending.



Quick Heating Bed

Max temperature of heating bed is 110°C. Aluminum alloy hot bed, evenly heated, can be heated to 60 degrees Celsius in about 75 seconds; The heating speed remains unchanged at 220V and 110V voltages.



MINGDA Self-developed Core Hardware Delivers Speedy Smooth Performance.

This high-performance **64-bit self-developed motherboard**, powered by the 6-core CPU, ensures fast processing of data and rapid completion of 3D printing tasks. With **32GB of memory**, you can quickly store, export, and print large files with ease.



7-inch IPS

High-definition Large Screen

MD-400D has a 7-inch IPS 2.1 million high-definition computer screen. Compared with traditional LCD screens, it can see bright, saturated, and natural high-quality images from any angle. At the same time, it is more environmentally friendly and saves electricity.



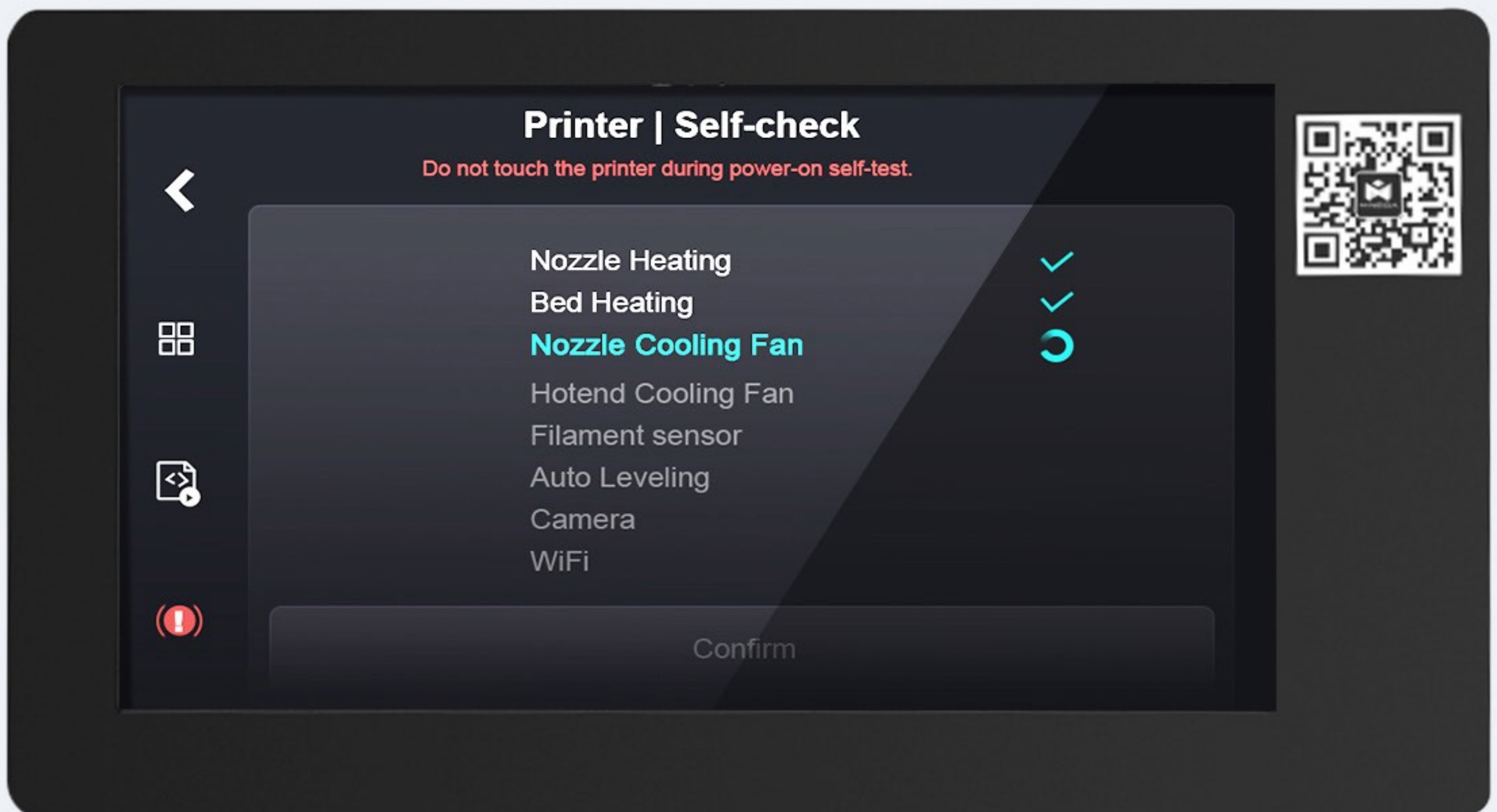
Support multiple languages

- | | | | |
|------------|--------------|--------------|-------------|
| 1. English | 6. Hebrew | 11. Poland | 16. Ukraine |
| 2. Danish | 7. Hungarian | 12. Portugal | 17. Chinese |
| 3. German | 8. Italian | 13. Russia | 18. Dutch |
| 4. Spanish | 9. Japanese | 14. Sweden | 19. Czech |
| 5. French | 10. Korean | 15. Turkey | etc |

Self Check when Power on



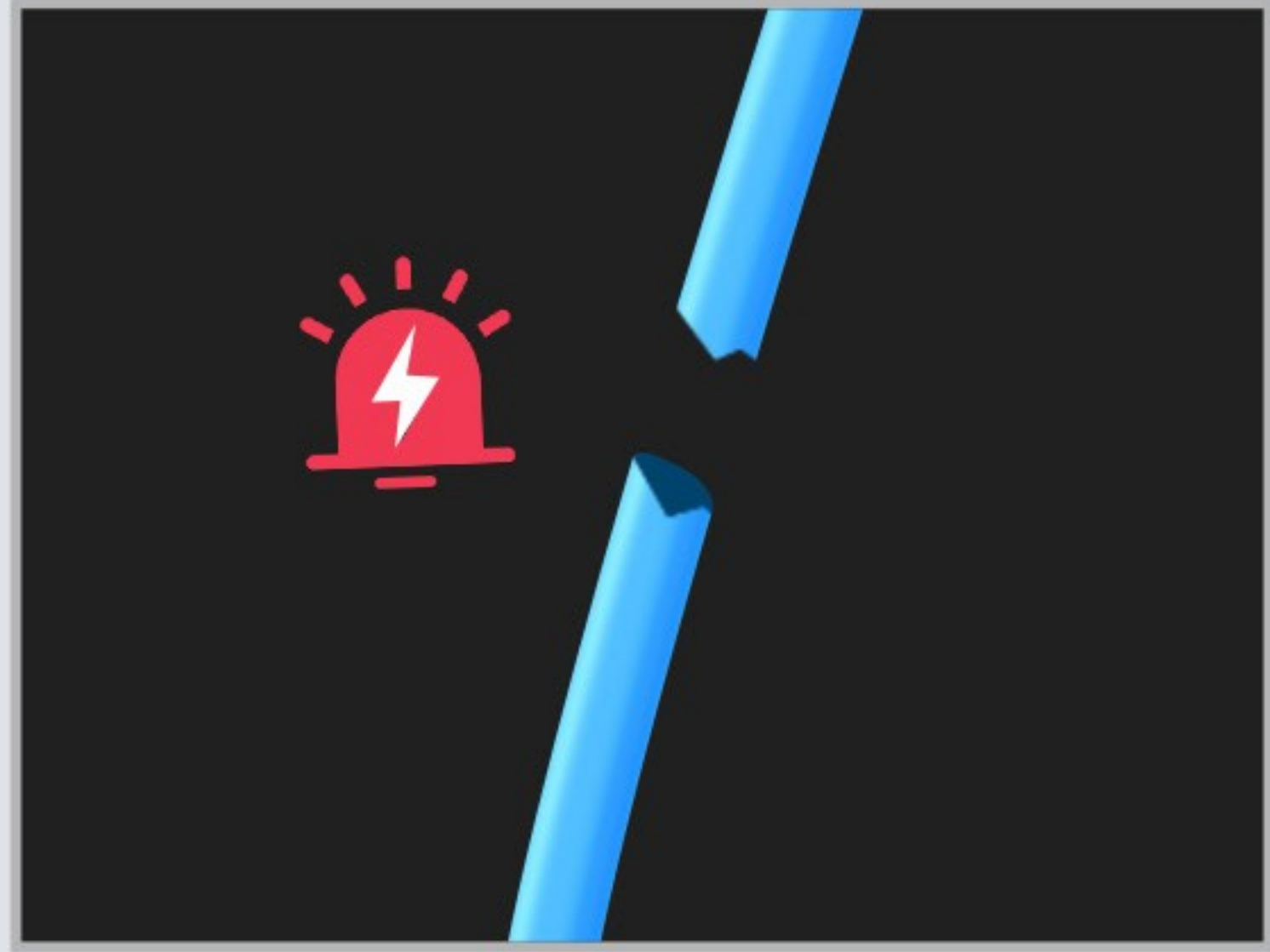
When power on it can automatically check the status of the extruder, hot bed, camera, automatic leveling, fan, and other components; If there are any abnormalities, a prompt will be displayed on the printer screen for quick and convenient processing.





Smart Resume Printing Function

The machine can automatically resume printing after power offer, less worries on print failure.



Automatic Filament Detection

It will pause the printing process, if the filament run out or if the filament is broken.

Compatible With Various Filaments

Common filament

PLA, TPU, PETG etc

Support filament

S-Multit, S-HtPA, PVA, etc

Engineering filament

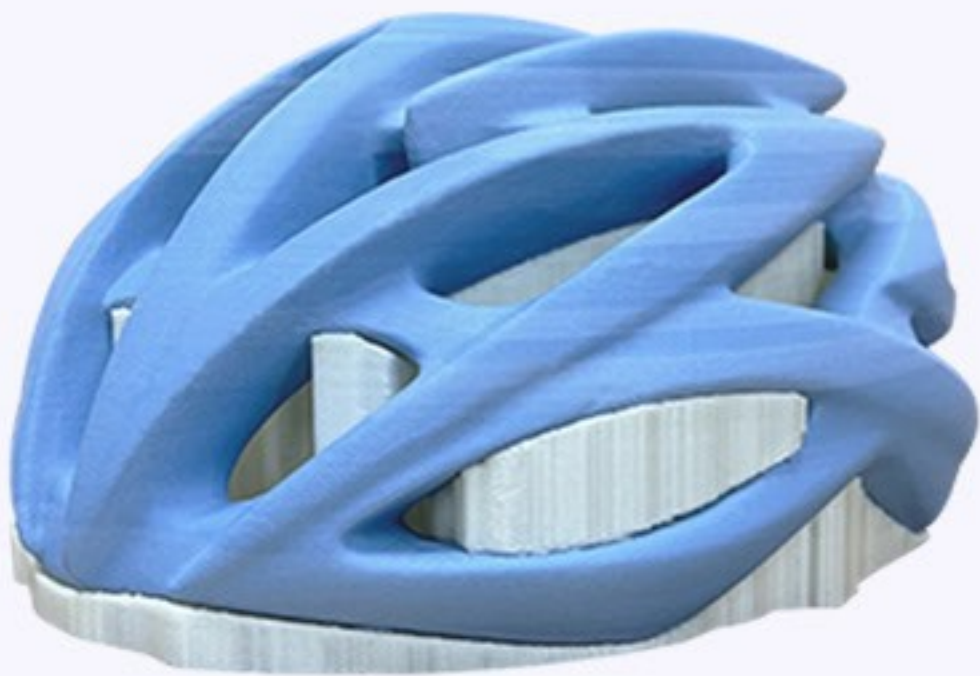
HtPA, PET-GF, PET-CF, PA12-CF, HTPA-GF, HTPA-CF,
ABS-GF25, ABS-CF20, PA-GF25, PA-CF25, etc



Application

For Manufacturing Application And Design Prototype Verification

New Product Design And Development



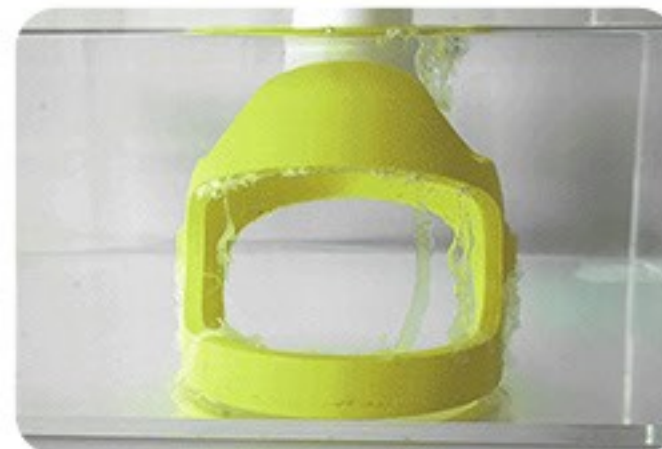
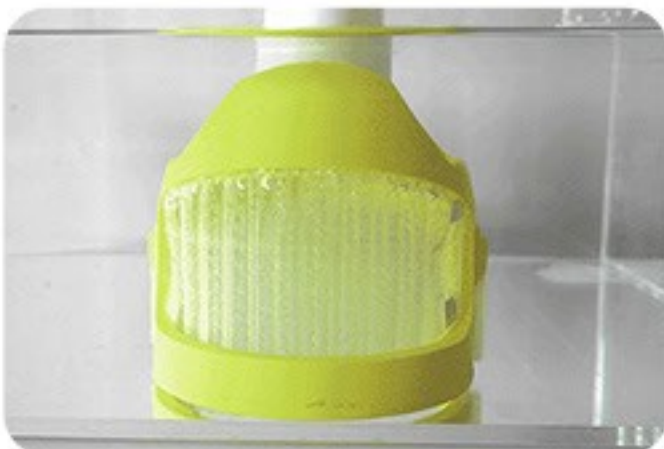
Breakaway Support Filament

Much easier to remove the support,
the supported surface comes out clean and smooth.



Soluble Support Filament

Printing complex models with internal geometries and hollow structures is made possible by using water-soluble filament.

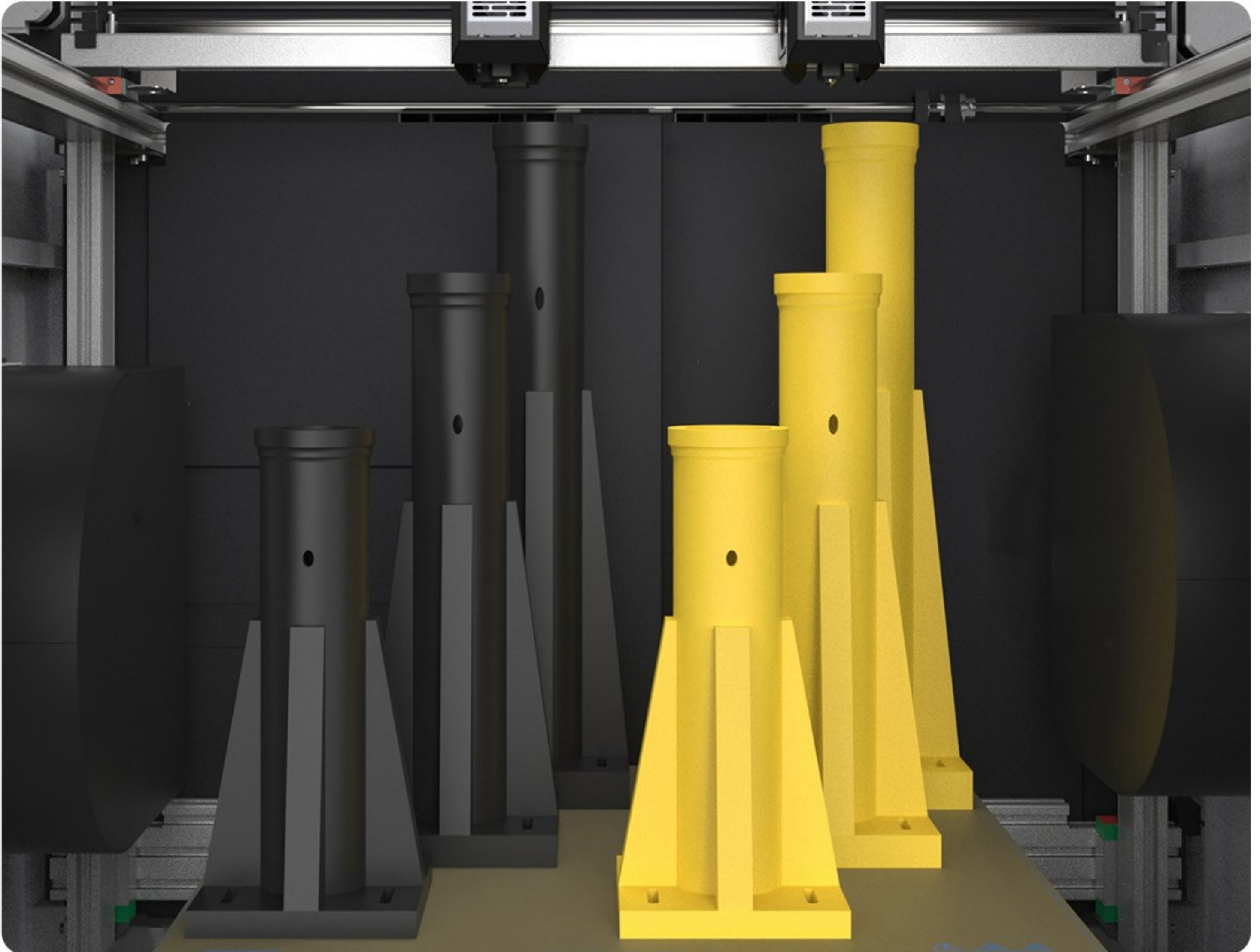


Small Batch Production

3D Printing Farm & Workshop



Duplicate Mode And Mirror Mode That Double Productivity



Product Parameters



PRINTING

Printing Technology	Fused Deposition Modeling (FDM)
Print Volume	400*400*400mm
Duplicate Mode	400(2*200)*400*400 mm
Mirror Mode	320(2*160)*400*400 mm
Extruder Quantity	Two
Nozzle Diameter	0.4mm (0.6mm, 0.8mm optional)
Filament Diameter	1.75mm
Filament Compatibility	Common filament: PLA, TPU, PETG; Engineering filament: PA-CF/GF, PET-CF/GF,HtPA-CF/GF, ABS-GF25, ABS-CF20, PA-GF25/CF25; Support filament: S-Mulit, S-HtPA, PVA, etc
Power Requirements	100/240V-50/60Hz
Rated Power	700W (Extruder: 80W Hot Bed: 500W)
Connectivity	U disk
Resume Printing Function	Save data when power is off
Filament Detection	Pause printing when filament run out
Extruder Temperature	≤350°C
Platform Temperature	≤110°C
Firmware	klipper
Max Printing Speed	500mm/s(Recommend Printing Speed: 200-300mm/s)
Print Precision	± 0.1 mm
Platform	PEI
Package Weight	112.5Kg
Package Size	82x72x108cm
Support Software	MingDa OrcaSlicer, Reptier-Host, Simplify3D
Supported File Types	Stl, Obj, G-code
Operating Systems	Windows(7,8,10), Mac OS X