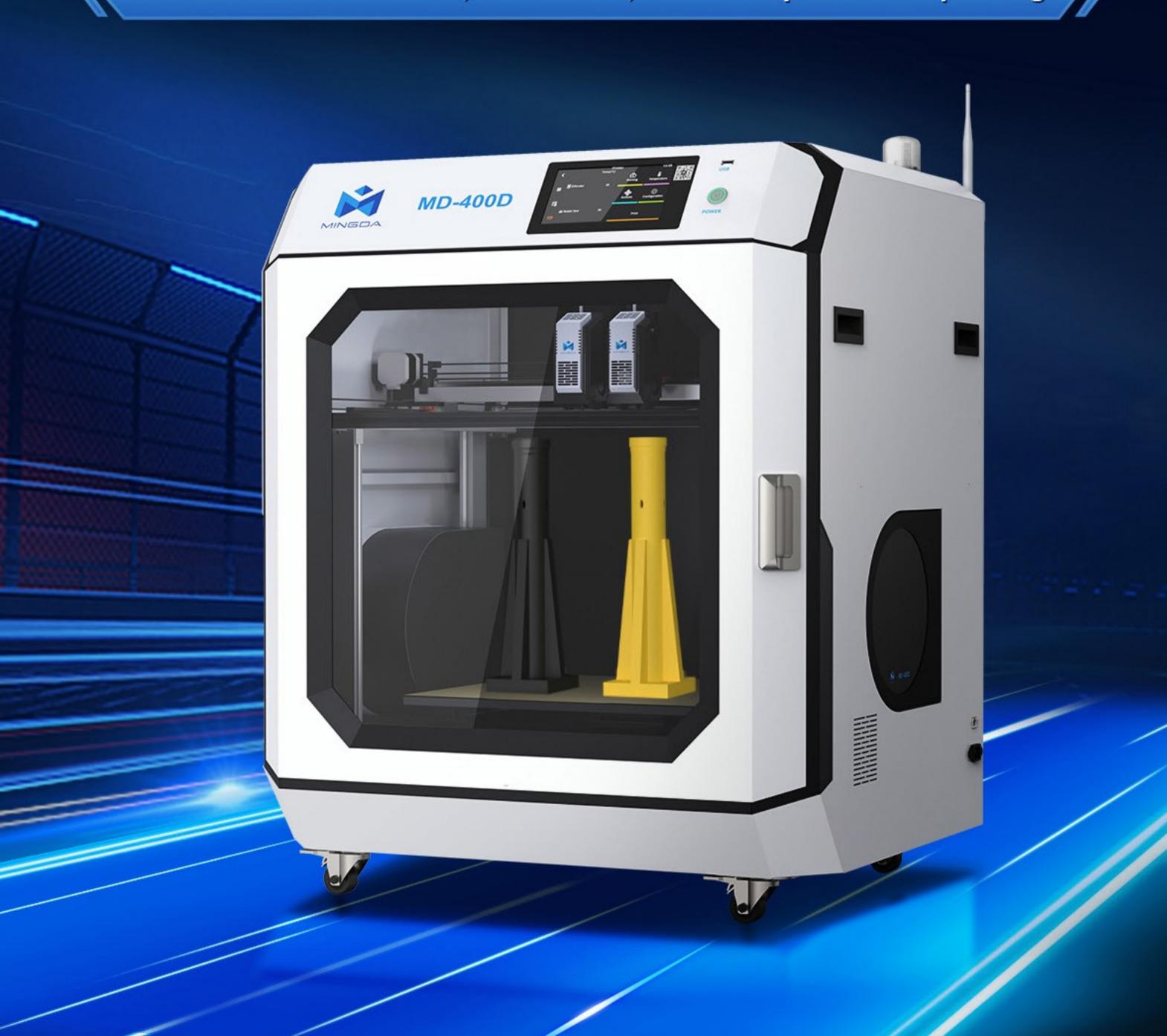
MD-400B

Faster High Temperature DEX 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/s ² Peak acceleration, only 0.02s speed up form 0 to 300mm/s, achieving ultra-high efficiency printing.

500mm/s

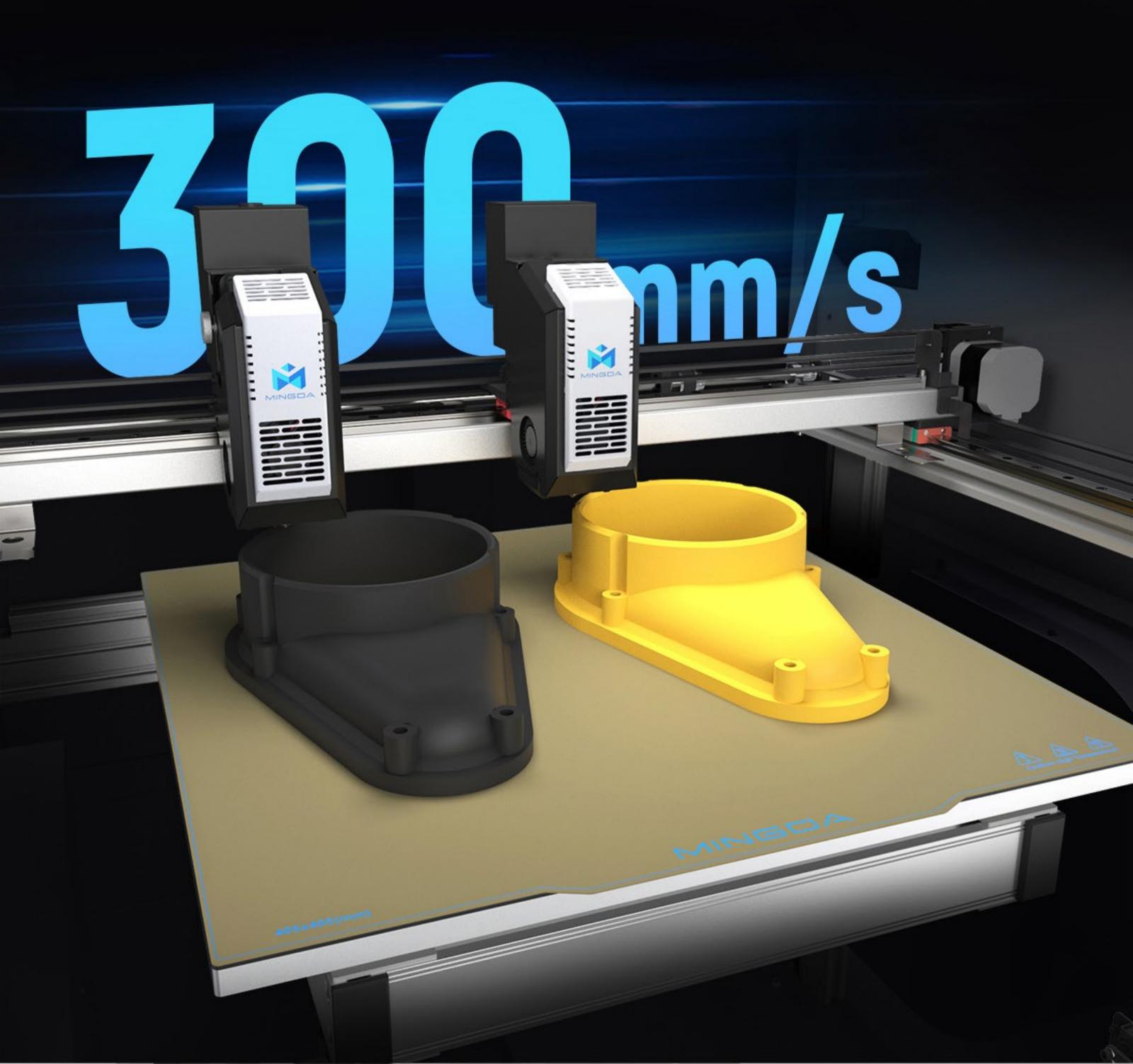
Travel speed

300mm/s

High-Speed

40mm³/s

Max Flow





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

Fliament

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

MINISO

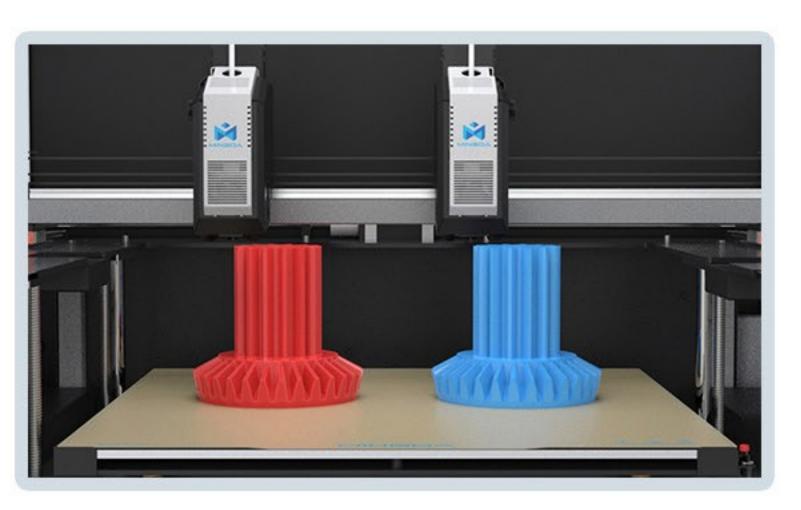
Filament: Ordinary PLA

Printing Speed: 50mm/s

Printing Time: 4 days

* The experimental data is for reference only

Four Printing Modes



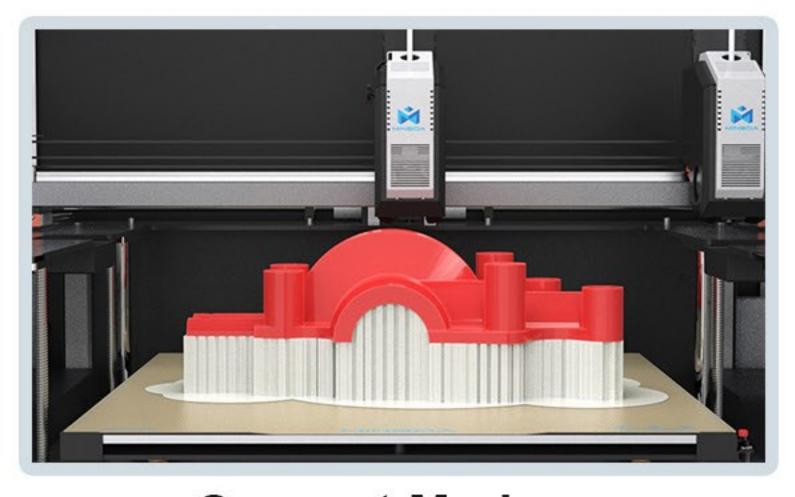
Duplicate Mode

Equivalent to 2 printers working, achieve double productivity



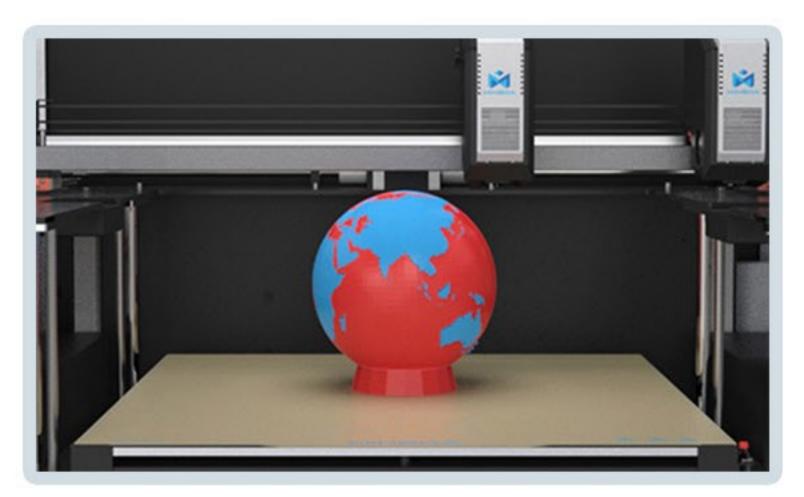
Mirror Mode

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

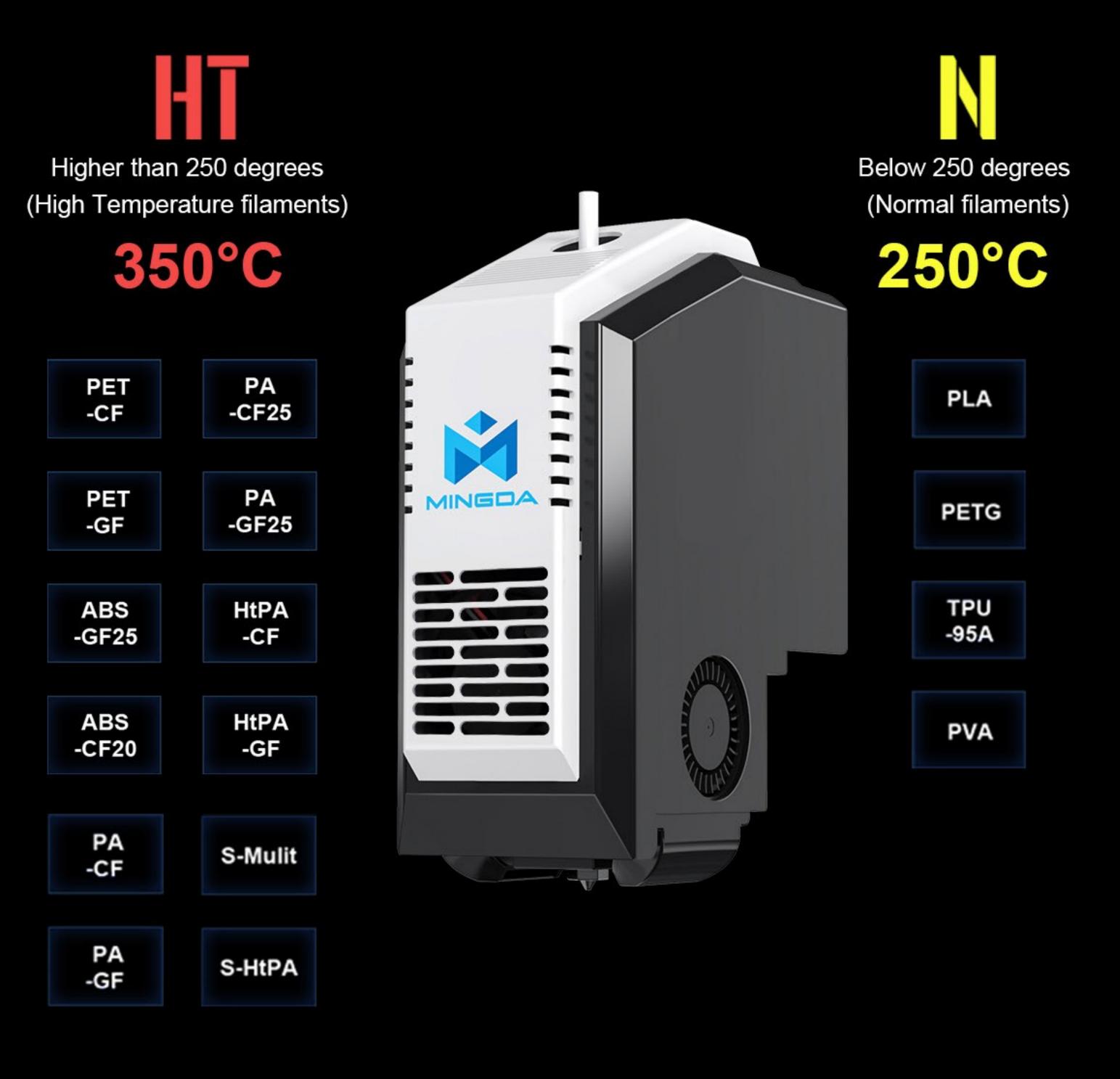


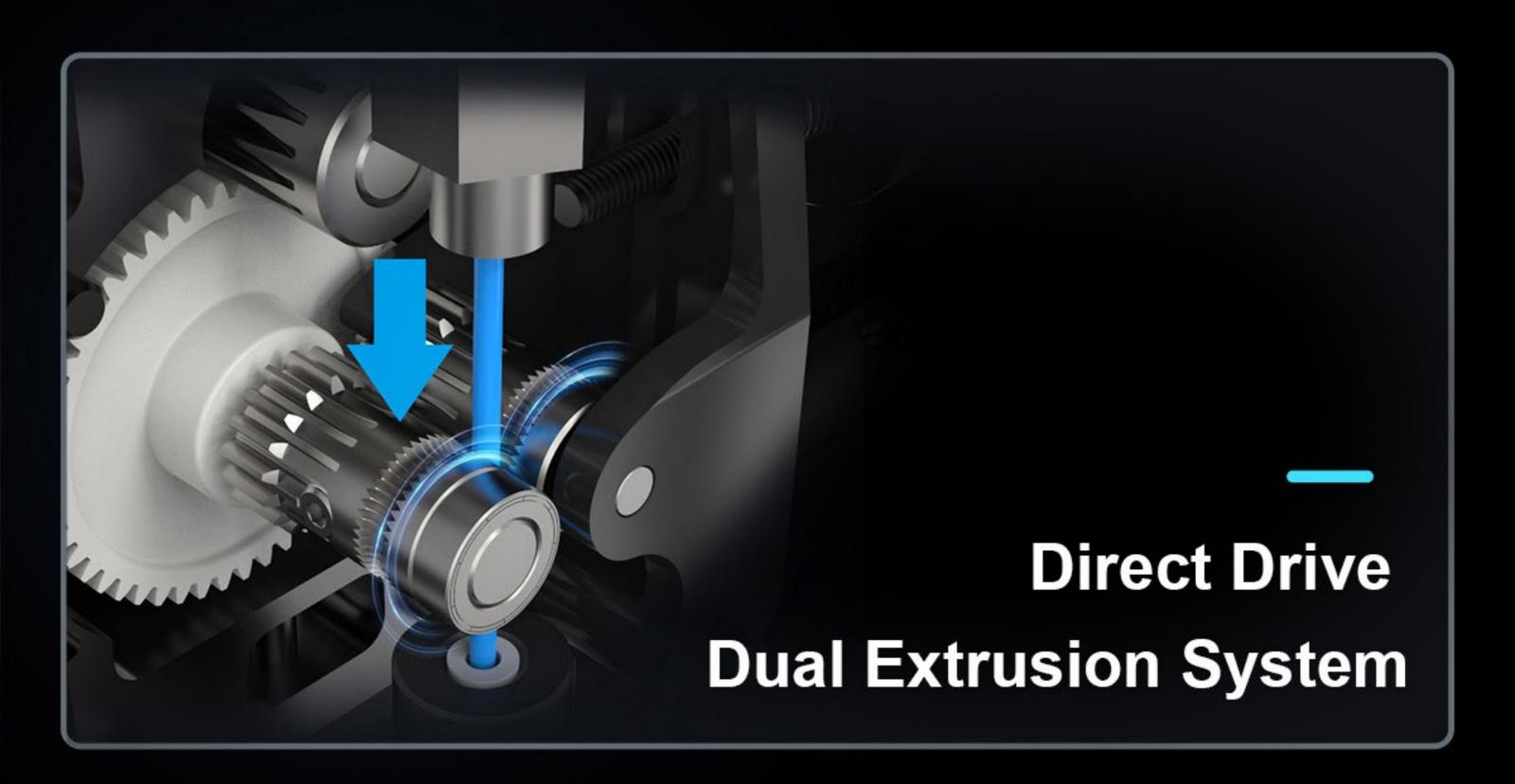
Dual-Color Mode

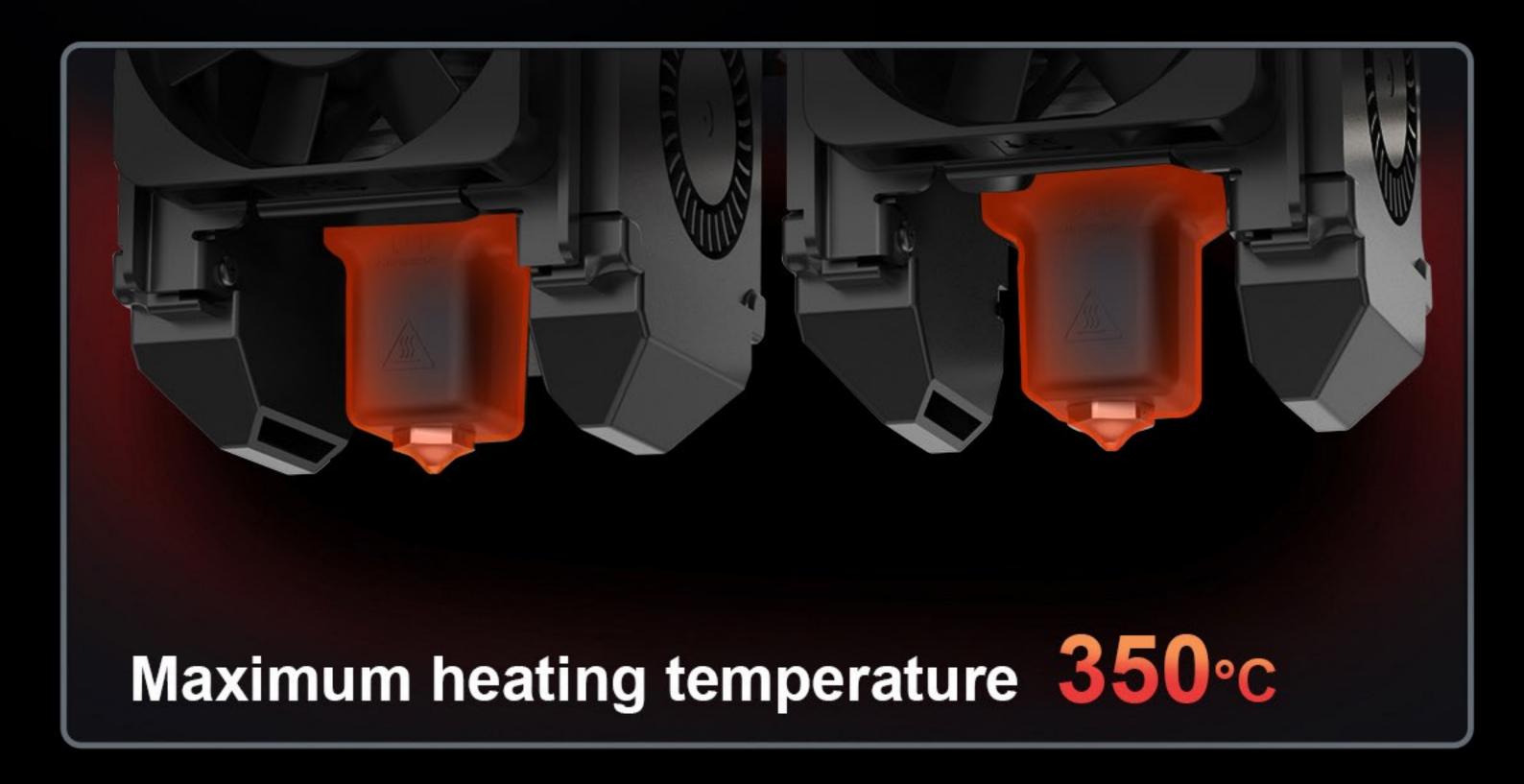
Allows printing different parts of a model in 2 colors

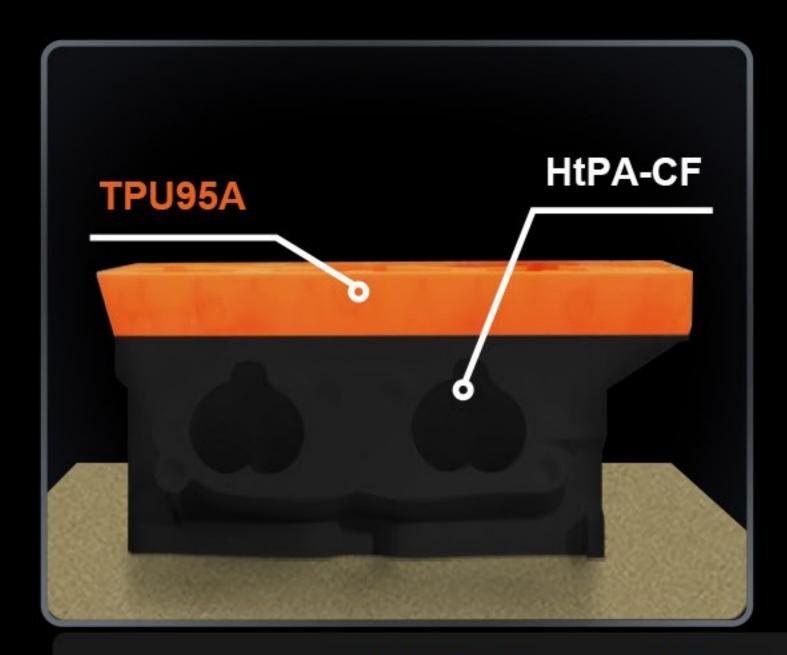
350°C High Temp Printing

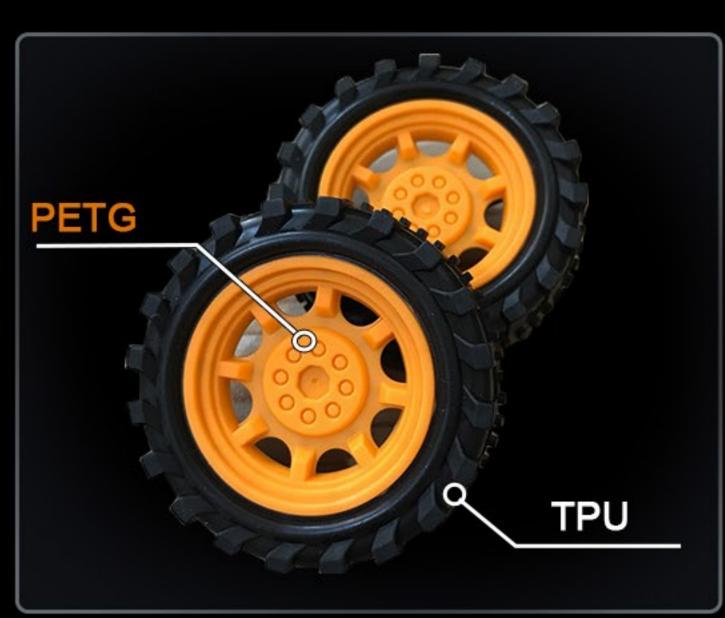
All Metal Hotend and Excellent material Hardened Steel Nozzle printing temperature up to 350 degrees. With constant accuracy, it can print carbon fiber and engineering filaments for a long time. No need to replace the hot end when printing PLA, PETG and other filaments.







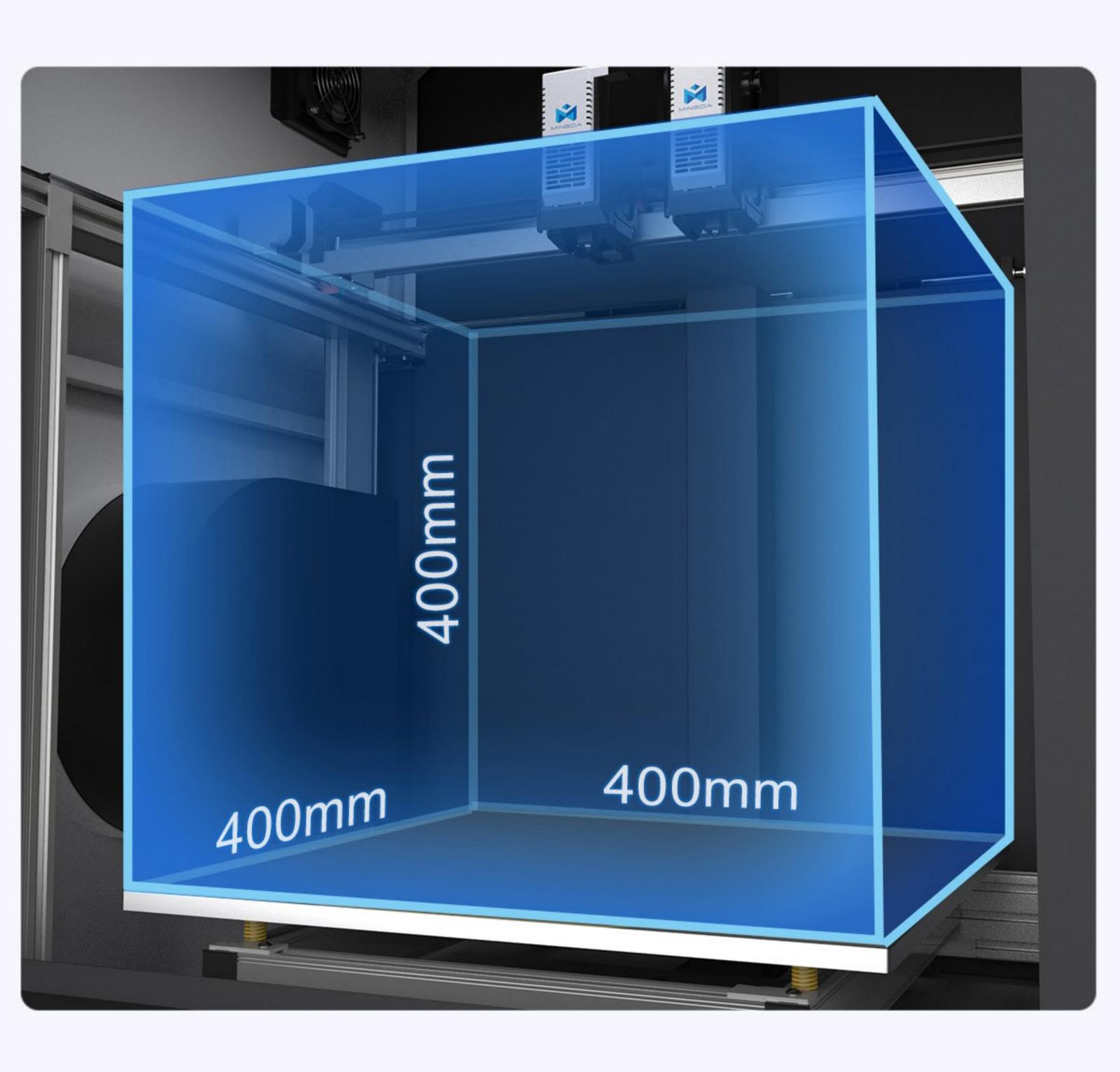




Supports TPU95A and HtPA-CF, while printing TPU and PETG simultaneously.

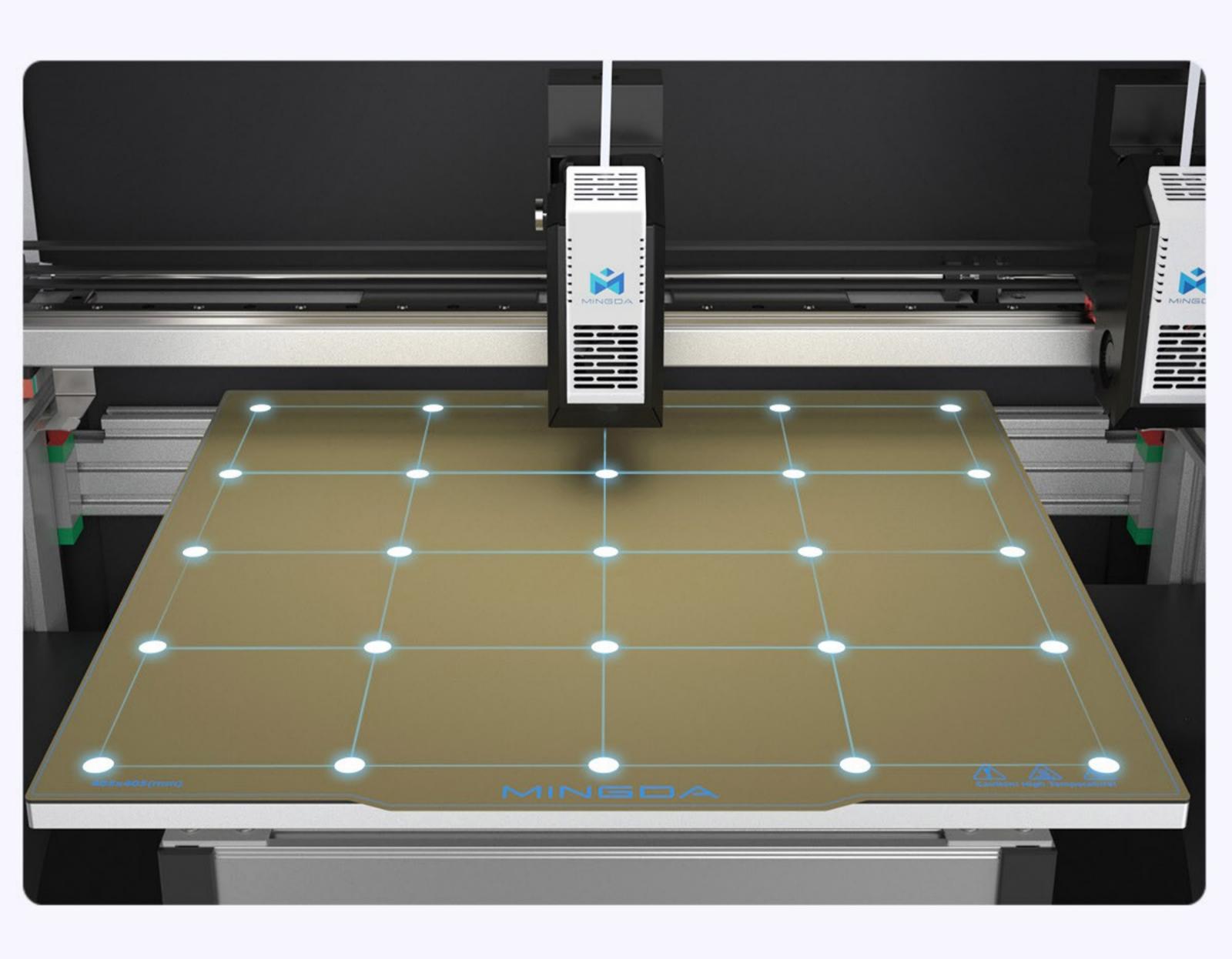
Large Build Volume

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



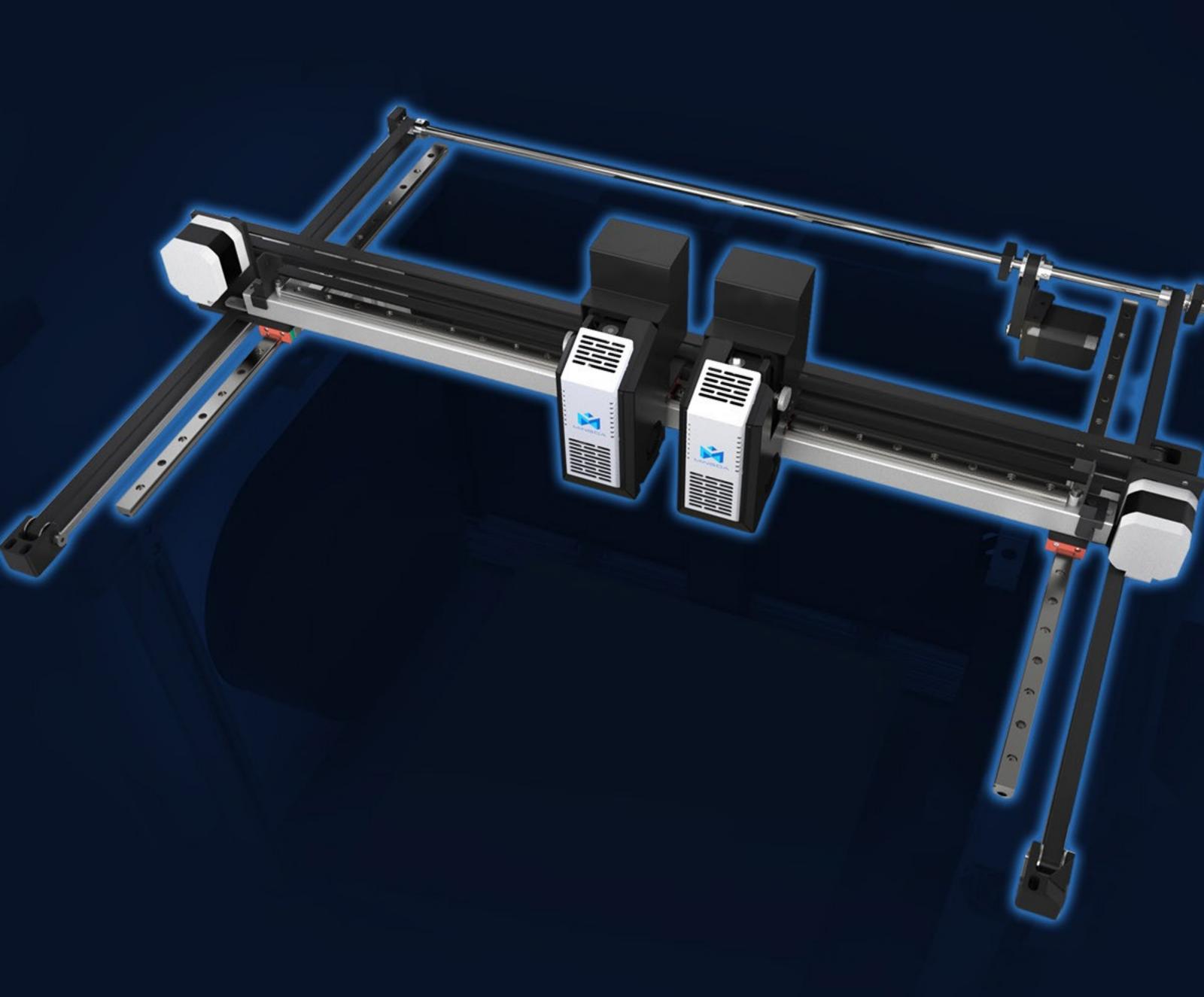
Hands-free Auto Leveling

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



± 0.1mm High Precision

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

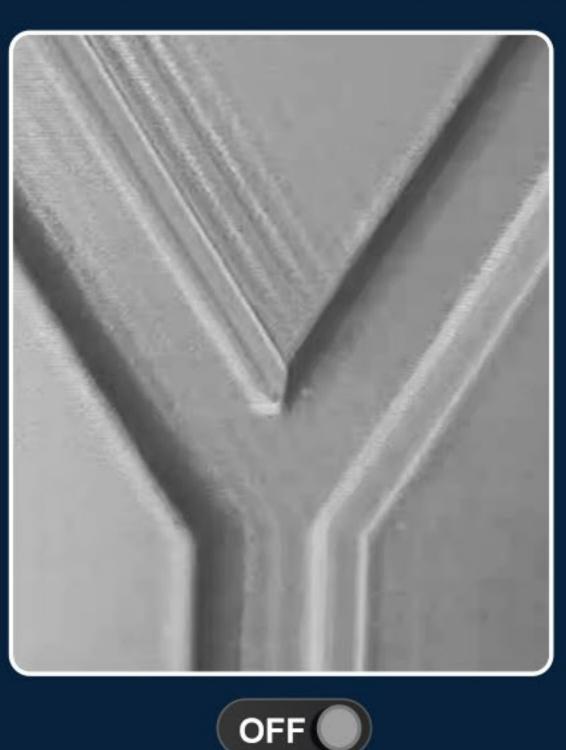


Excellent in Detail



Input Shaper

Reduce vibration patterns and make the surface smoother





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.

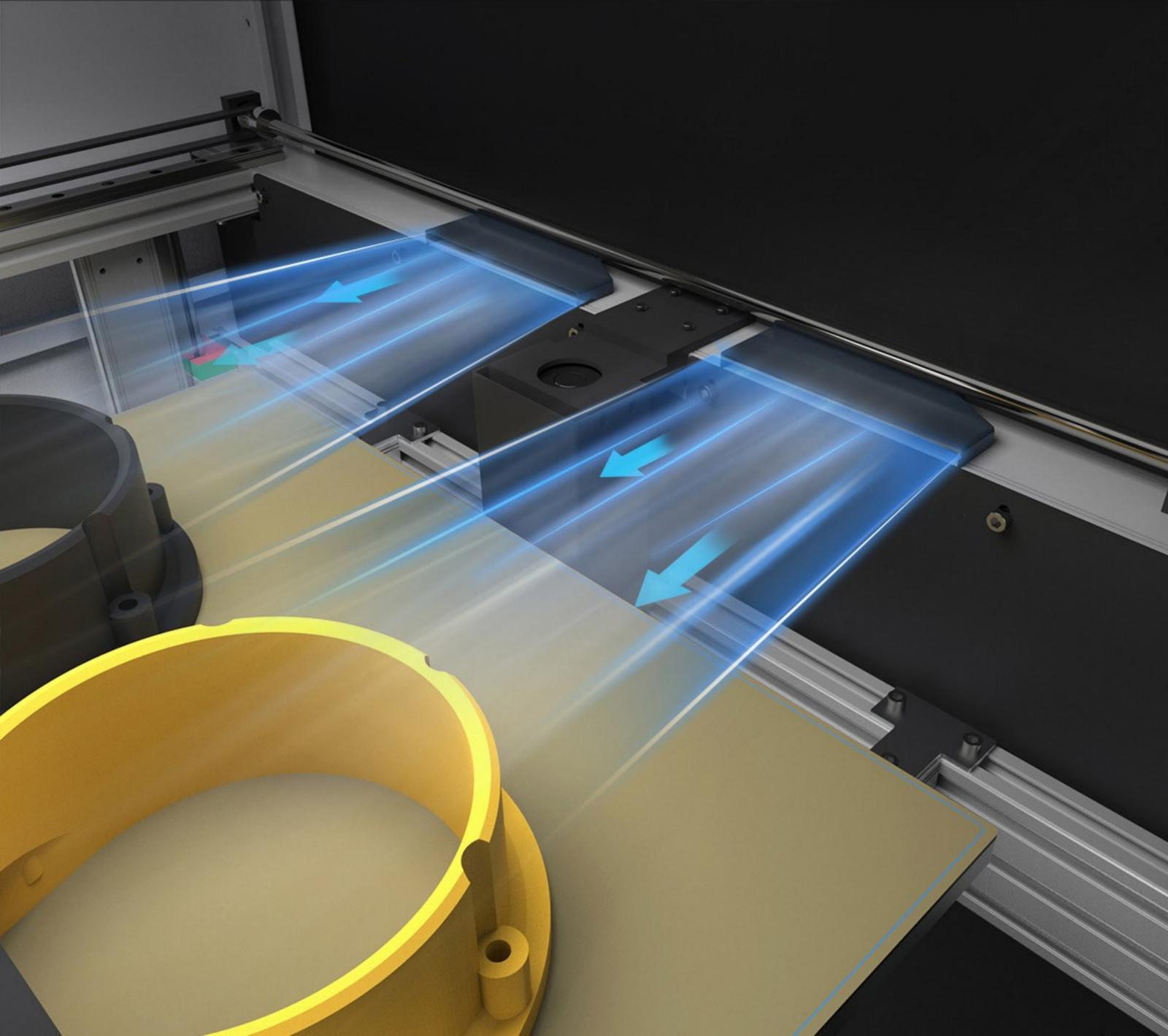




New Cooling System Design

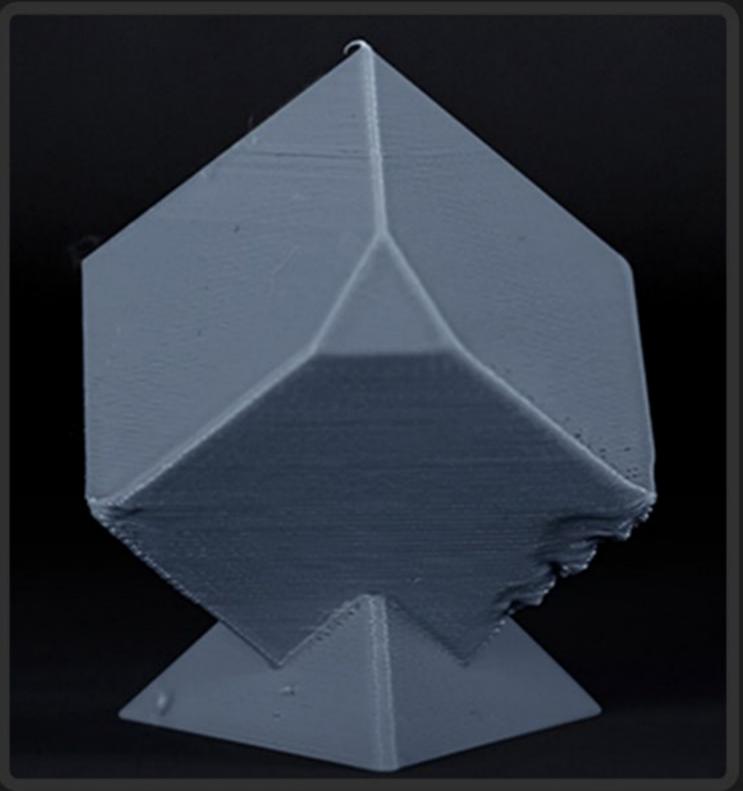
The dual cooling system truly takes model cooling to the next level with an aerodynamic air duct design that blasts models with intensely powerful directed airflow for enhanced cooling capabilities, crafting perfect prints.





Speed cool solidification, effectively avoid stringing, warping



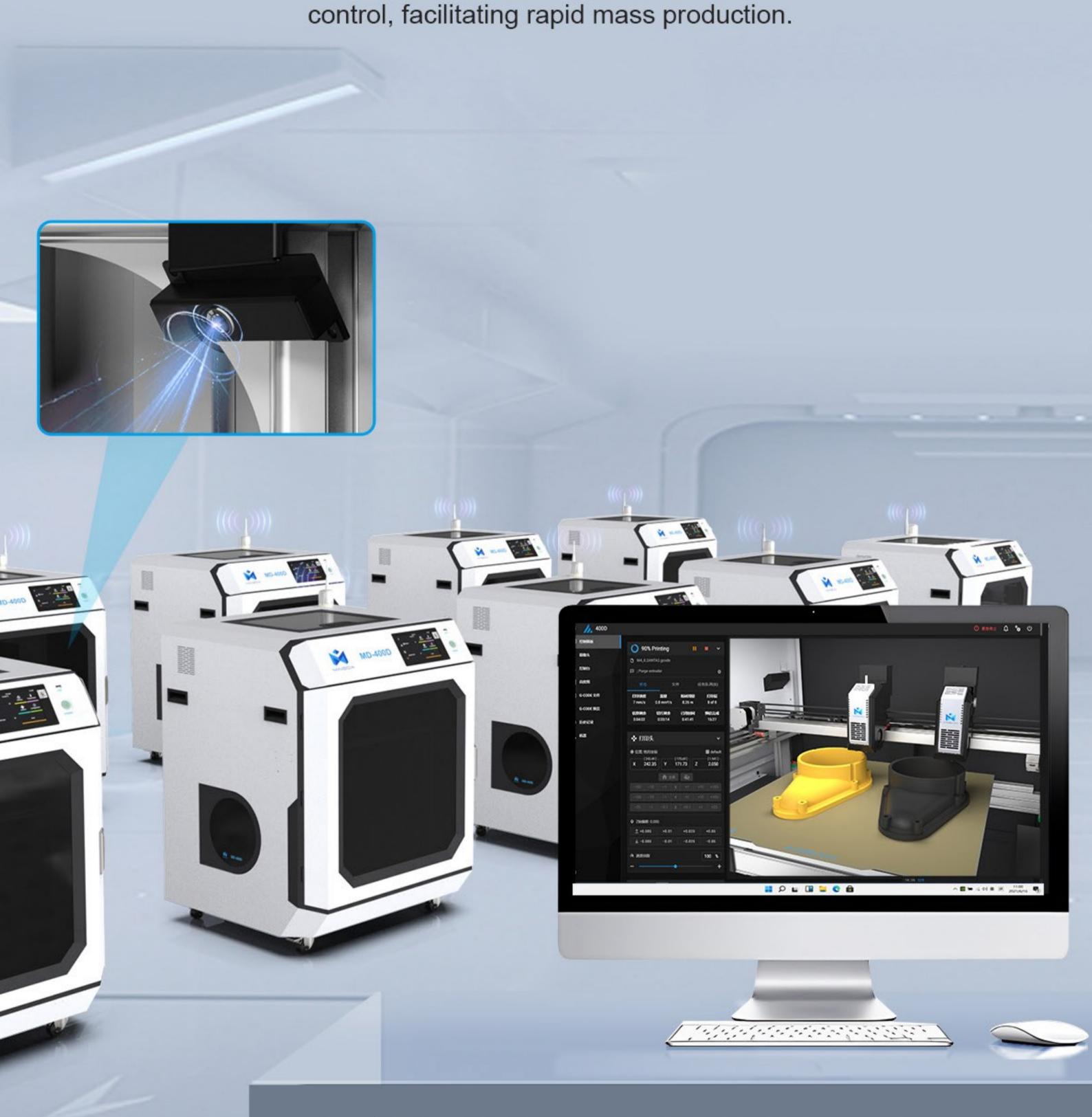


Mingda air cooling effect

Regular air cooling effect

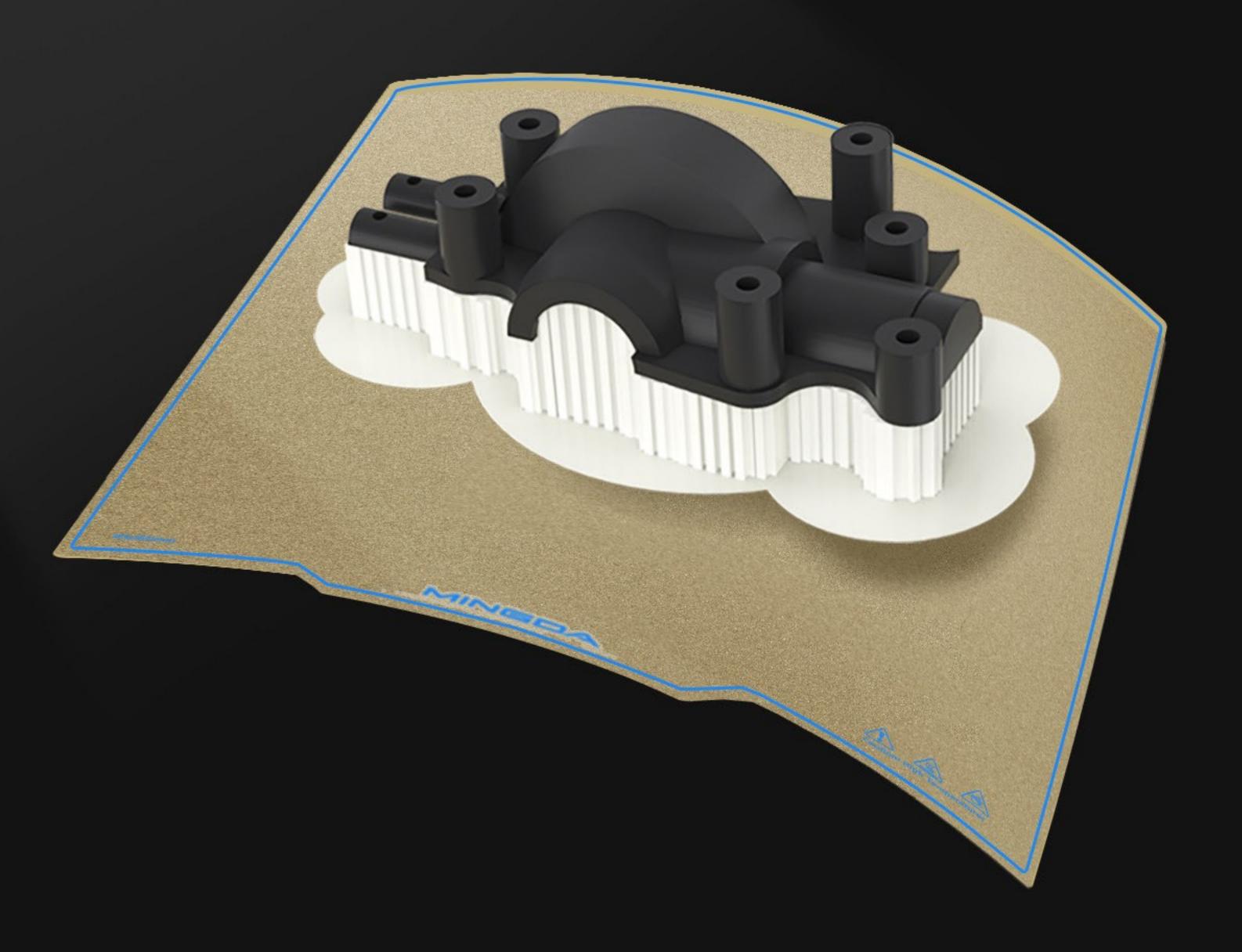
Remote Printing Multi-Machine Control

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.

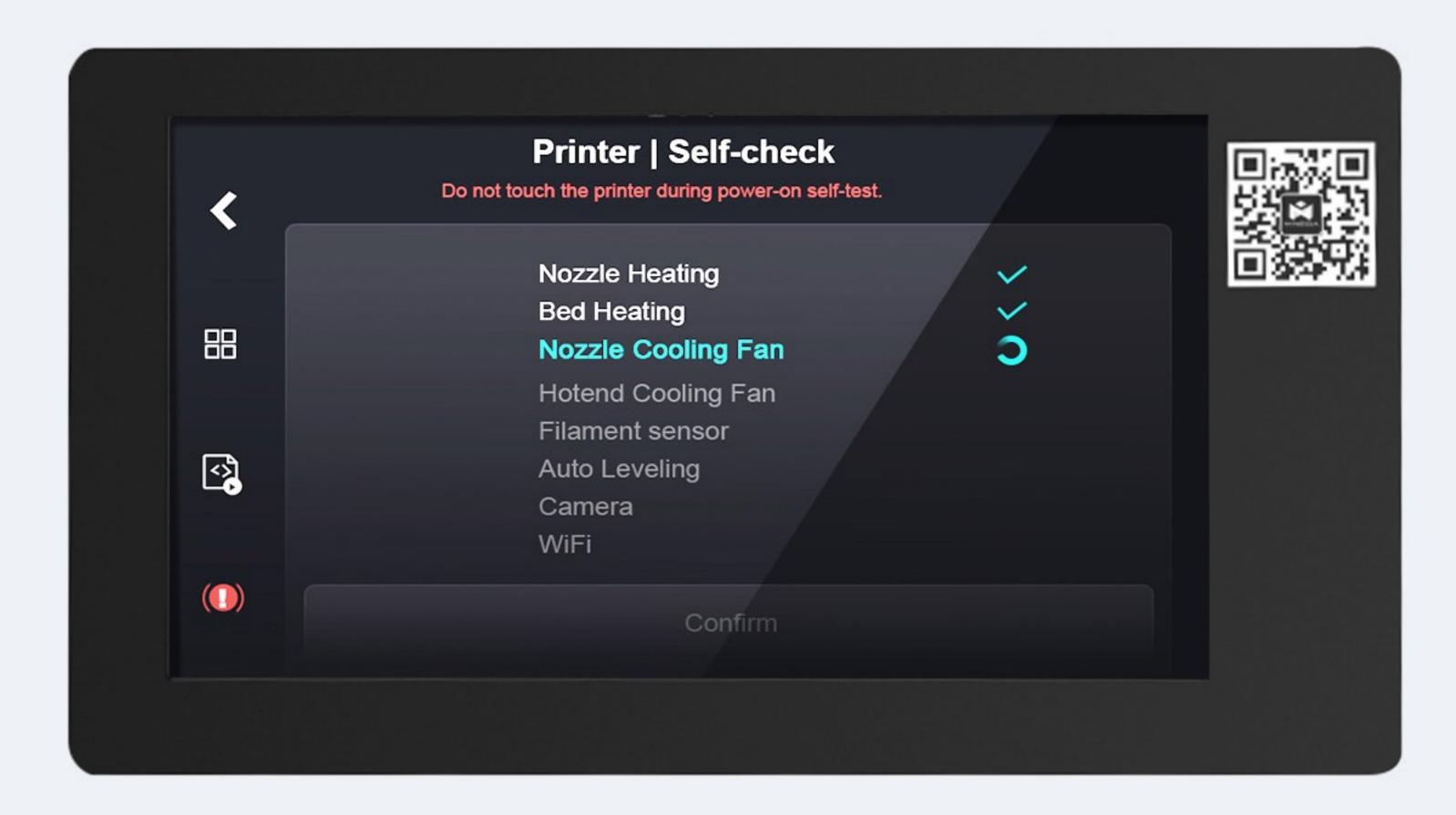


Support multiple languages

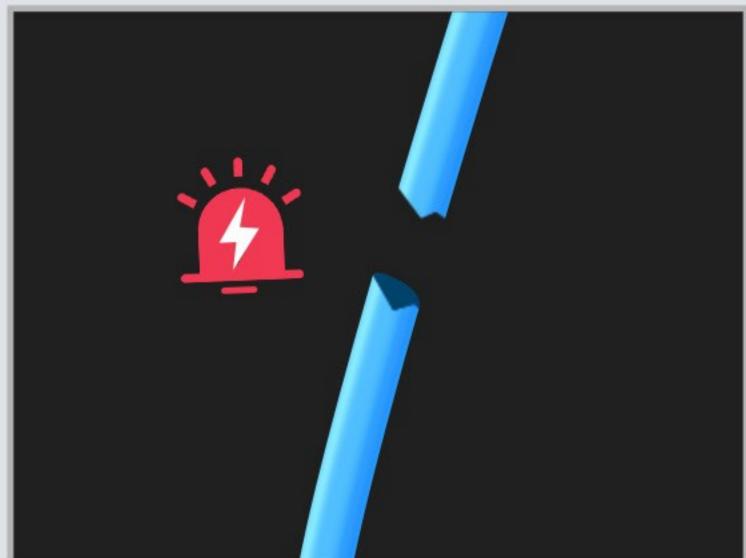
- 1. English
- Danish 7. Hungarian 3. German
- 4. Spanish
- 5. French
- 6. Hebrew
- 8. Italian
- 9. Japanese
- 10. Korean
- 11. Poland
- 12. Portugal
- 13. Russia
- 14. Sweden
- 15. Turkey
- 16. Ukraine
- 17. Chinese
- 18. Dutch
- 19. Czech etc

Self Check when Power on

When power on it can automaticly 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-Mulit, 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.

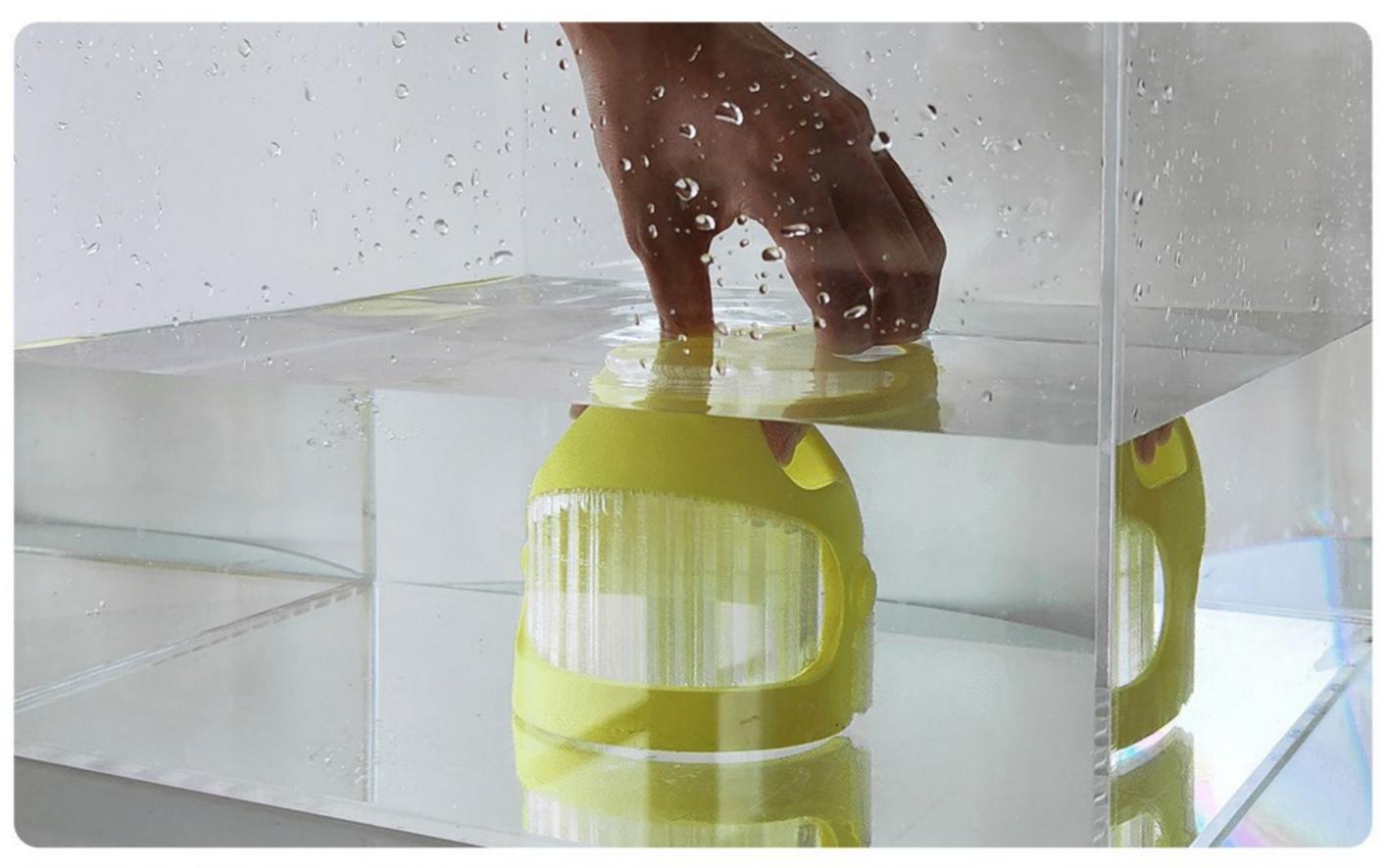


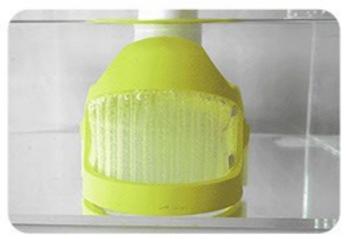


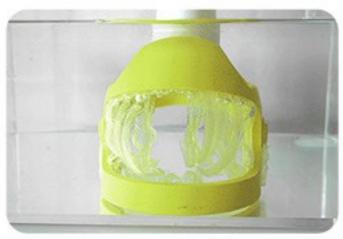


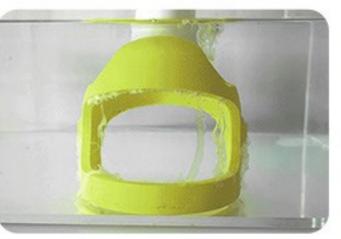
Soluble Support Filament

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









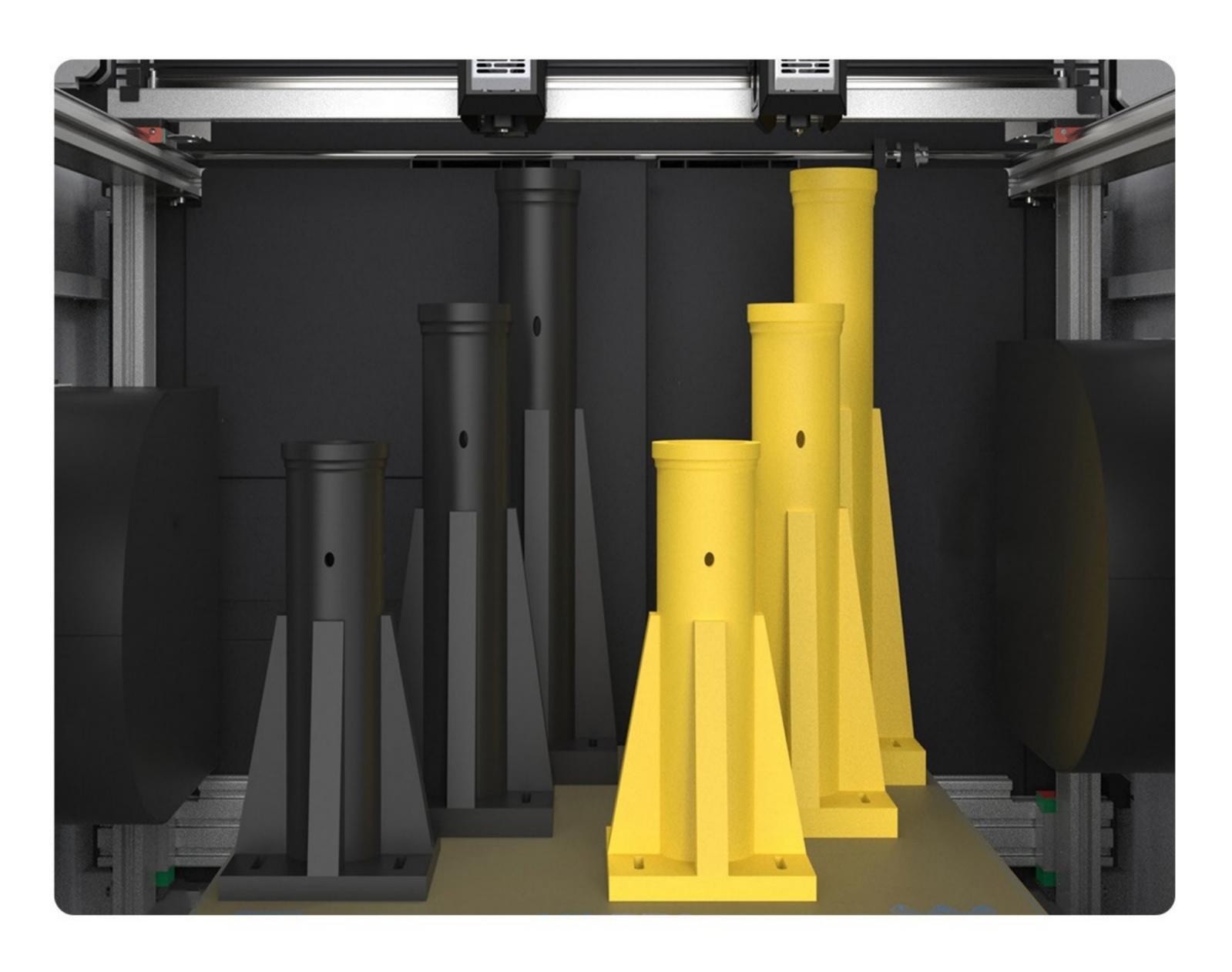


Small Batch Production

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