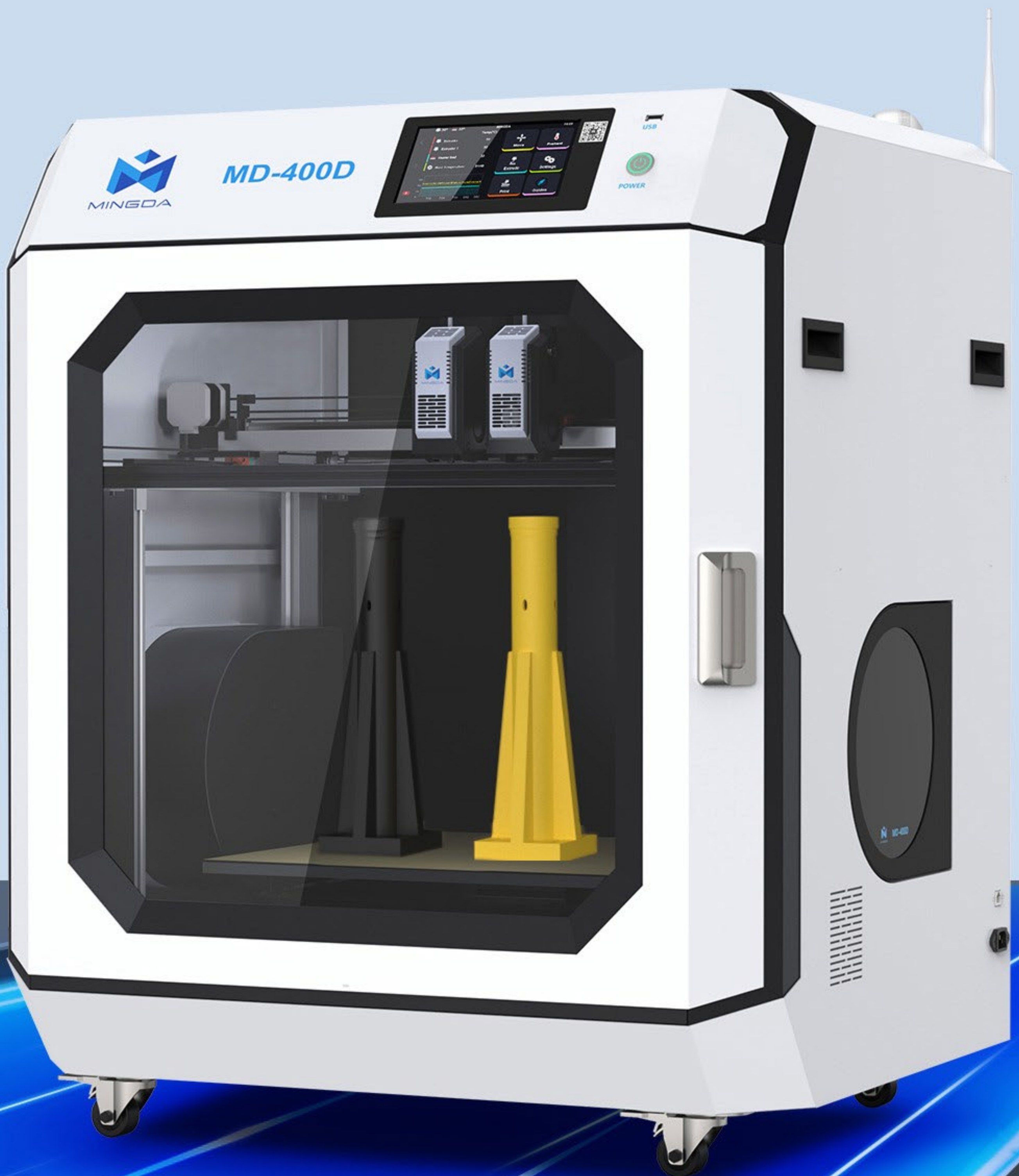


**MD-400D**

# 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



Max 350 °C  
High Temperature  
Hot End



New Cooling  
System Design



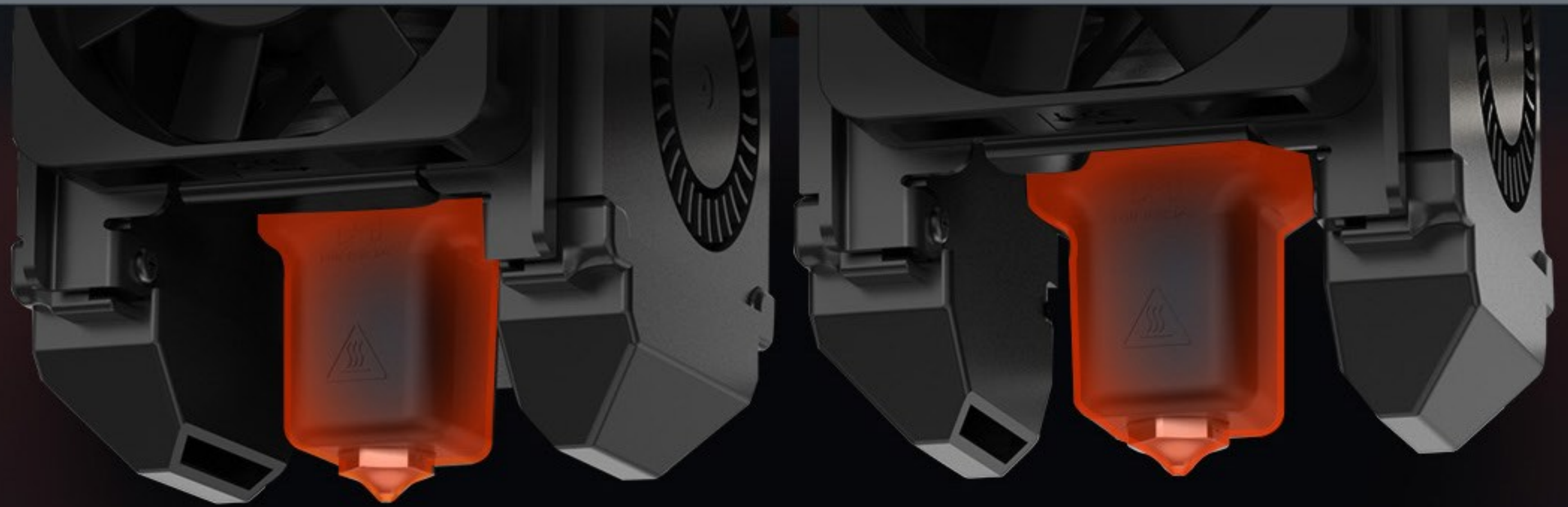
Camera & WIFI



Free Leveling



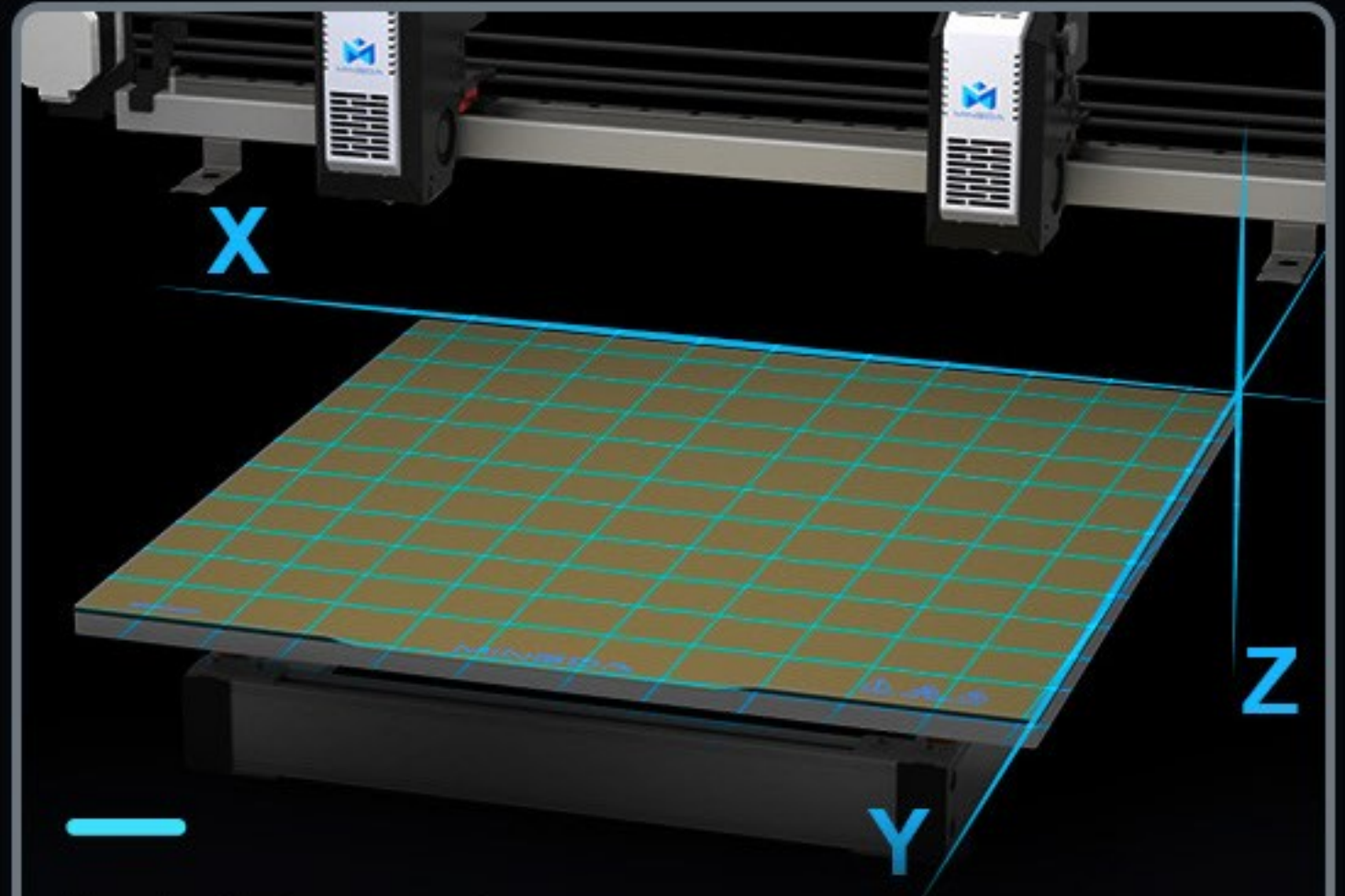
Input Shaper



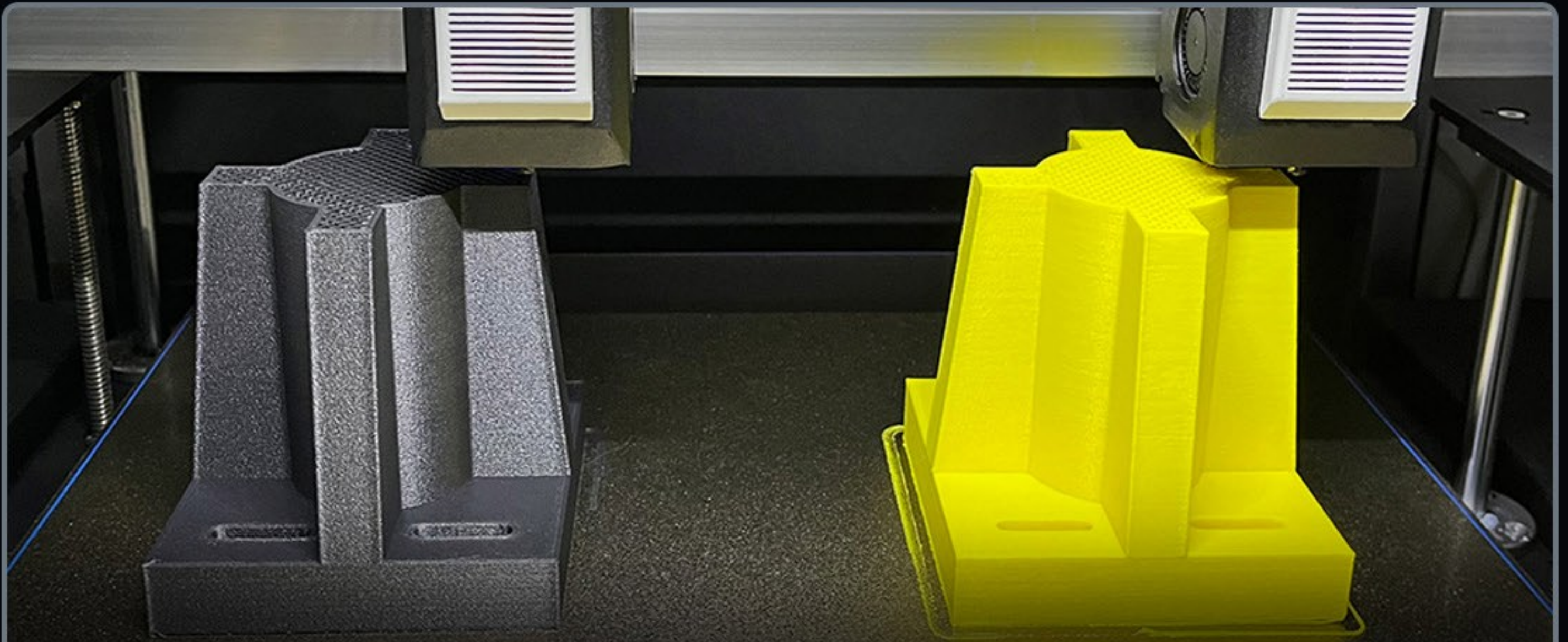
Maximum heating temperature **350°C**



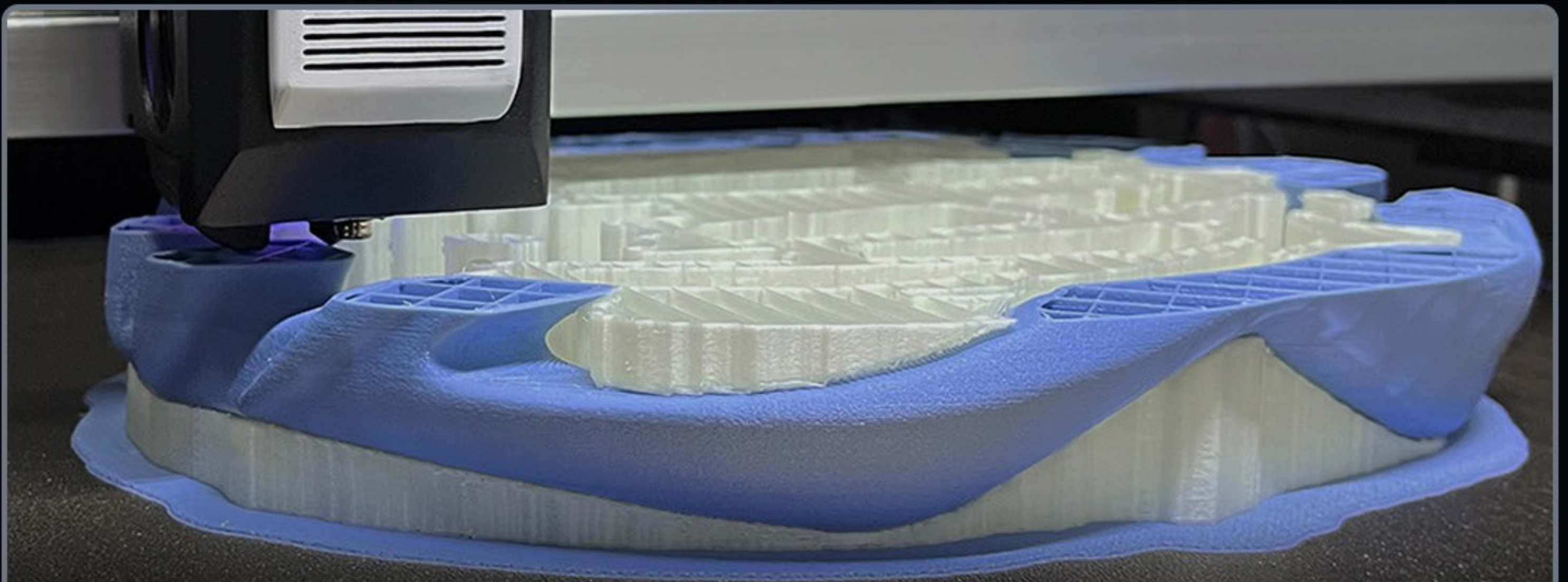
**Direct Drive  
Dual Extrusion System**



**Intelligent  
IDEX calibration**



**Double Productivity**



**Dual-material Printing**

# 5X Speed, Breakthrough in Printing Efficiency Once Again

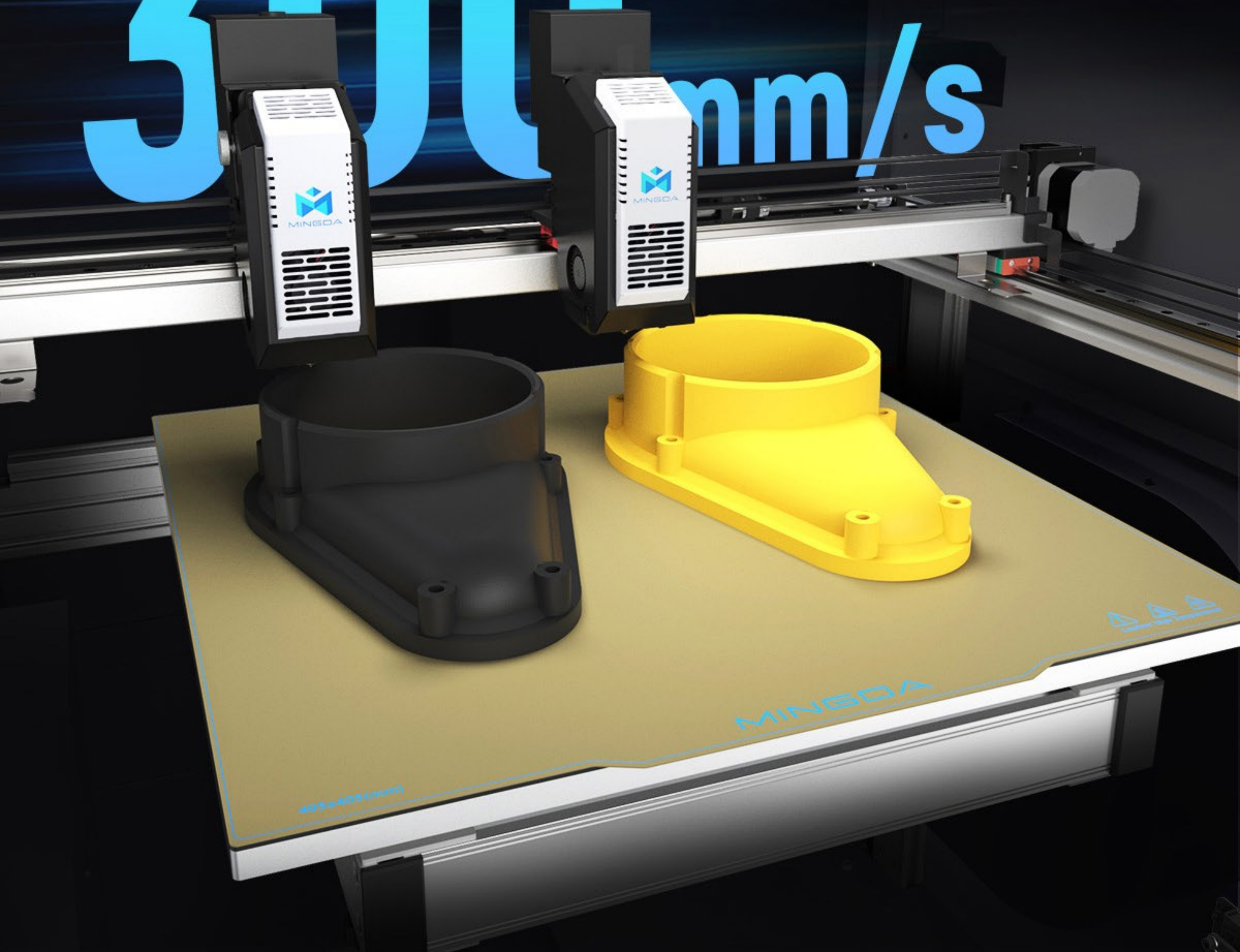
MD-400D printing speed up to 300mm/s, 10000mm/s<sup>2</sup> Peak acceleration, only 0.02s speed up form 0 to 300mm/s, achieving ultra-high efficiency printing.

**500mm/s**  
Travel speed

**300mm/s**  
High-Speed

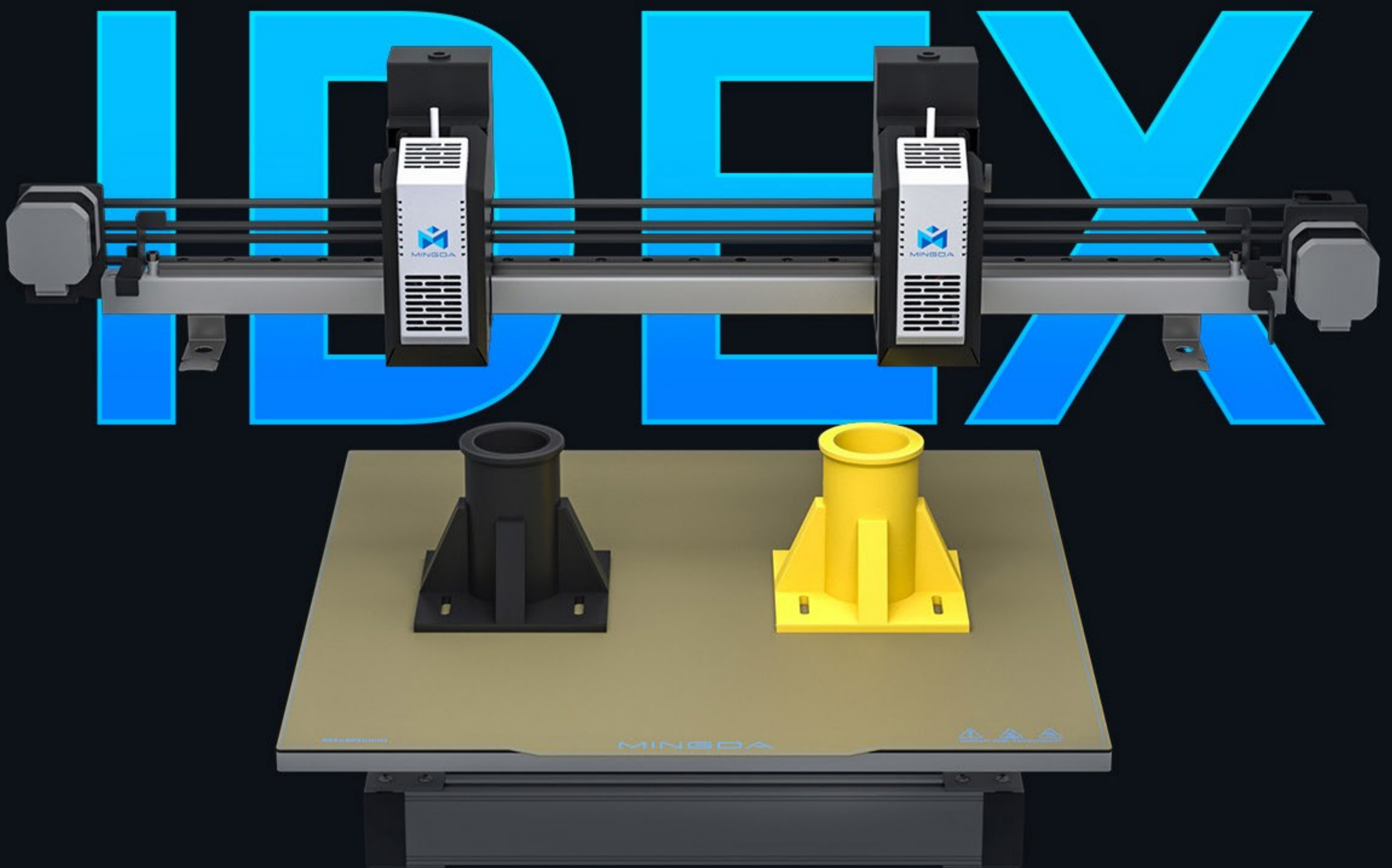
**40mm<sup>3</sup>/s**  
Max Flow

# 300 mm/s



# Infinite Possibilities with IDEX

## IDEX in Dual-material Printing



Compared with a multi-material unit, IDEX dual-material printing requires less time in filament changing and creates less waste. Plus, IDEX offers the cleanest two-extruder solution that prevents cross-contamination. It creates a clean interface between two materials, embracing hassle-free removal and avoiding stains and weird blending along the seam.

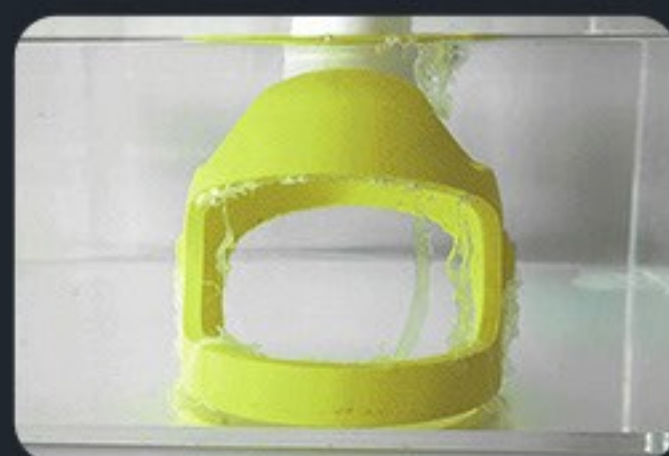
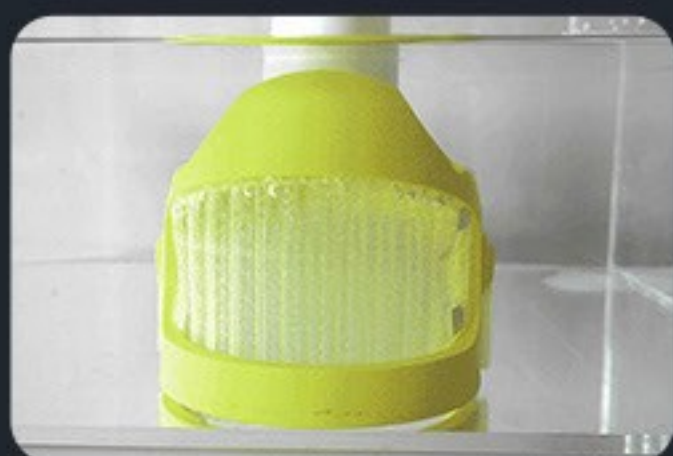
# Breakaway Support Filament

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.





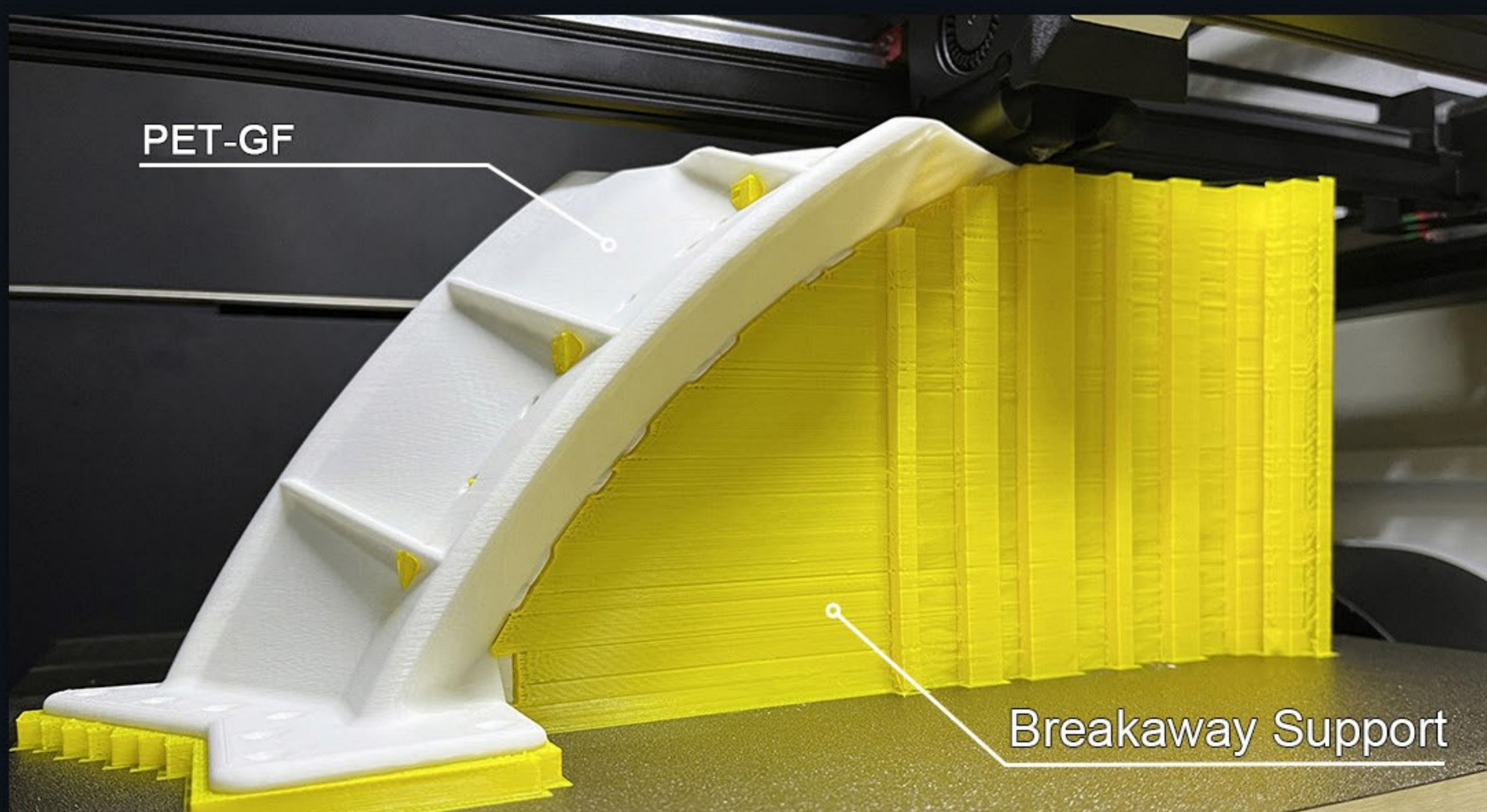
# 1+1>2



**Dual-material Prints.** In one print, you make the most of two sets of properties. Combine the strength of PETG with the flexibility of TPU for functional parts that can stand daily wear and tear impressively. Print also multi-part objects as a whole. With no assembly, the object attains stronger interconnections, making it less prone to impairment.



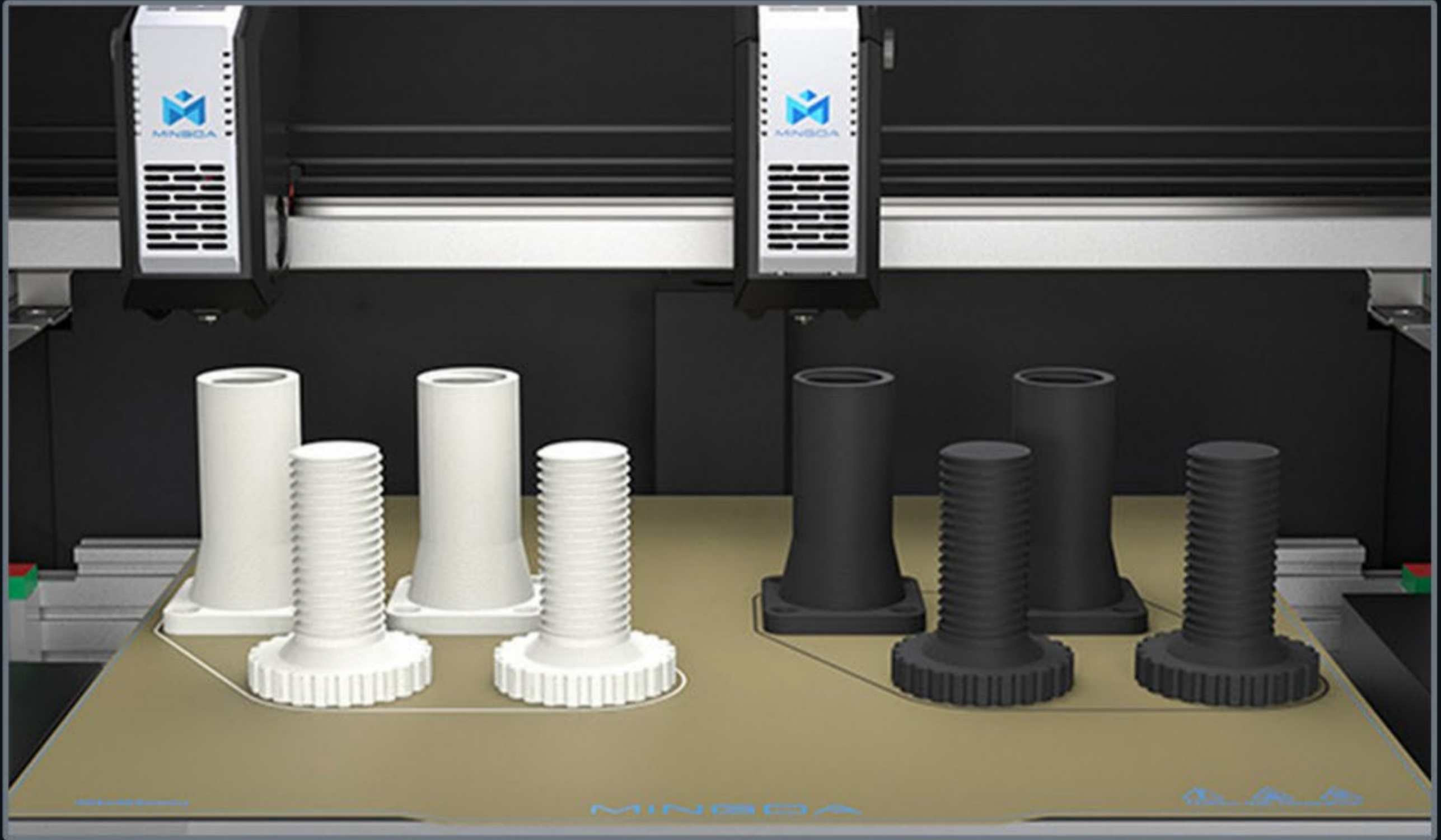
**Dual Color Prints.** Add a splash of personality to your concept models, miniatures, party essentials, gift items, and home decor.



Use different materials on the walls and the infill. By printing infill with economical materials plus a large-diameter nozzle, you can now spend most of your time and money budget on working the exterior to perfection.

# Print in Parallel

Halve your wait time, double your productivity. IDEX is the only extrusion system with two separate extruders moving independently on the X-axis, enabling you to run two prints simultaneously.



## Copy Mode

Print two identical objects in one go. It is especially suitable for batch printing, empowering studios and enthusiasts.



## Mirror Mode

MD-400D directly mirrors your model and prints the original and the mirrored one in one go. For a symmetrical model, you can import half of it and print it in Mirror Mode to cut your wait time by 50%, perfect for quick drafts and concept models.

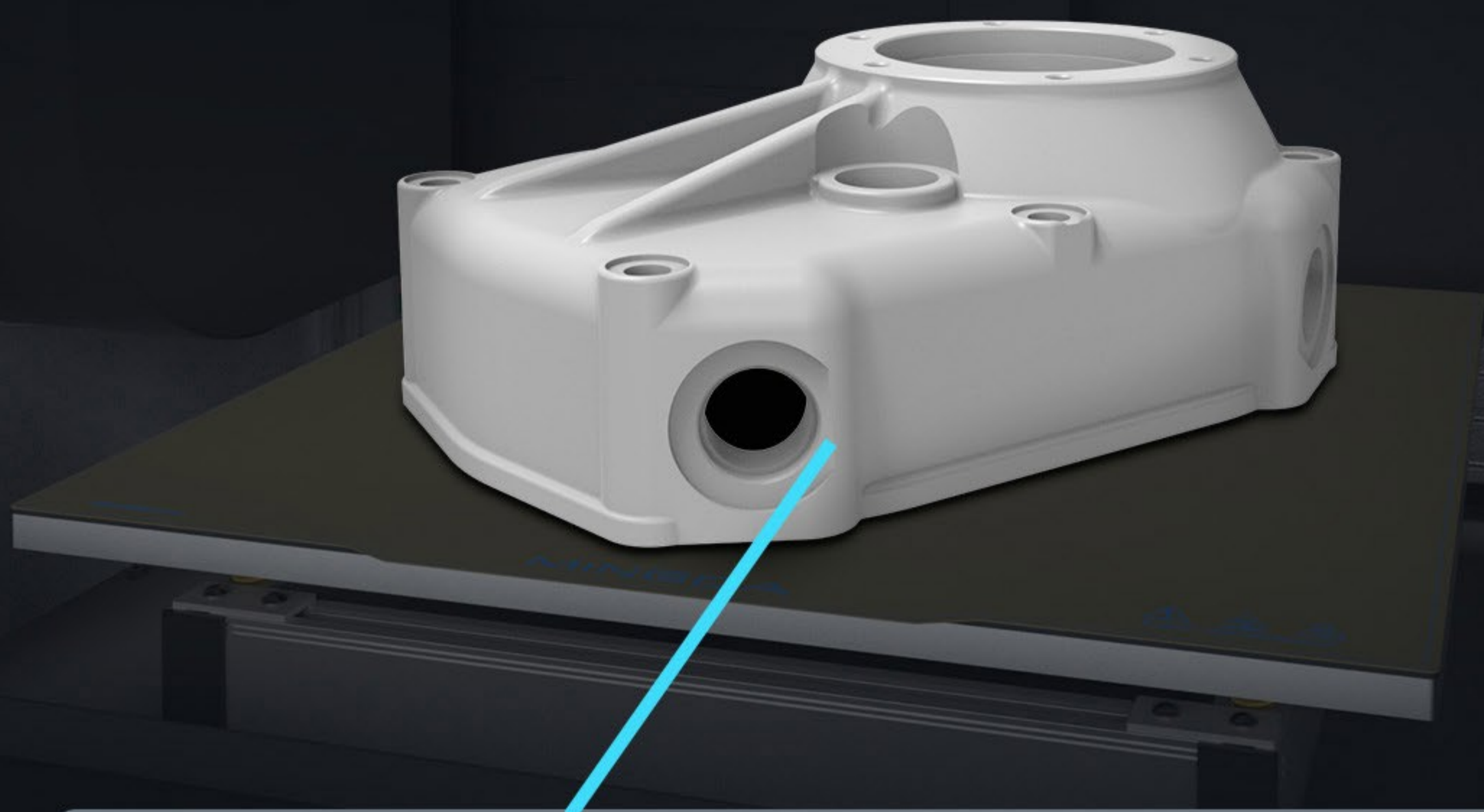
# High-precision Linear Rails

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The industrial-grade linear rails are made by CNC grinding at the micron level, ensuring smooth and steady movements. A significant rise in precision, rigidity, and durability for you to savor a fast, accurate, and steady making experience.

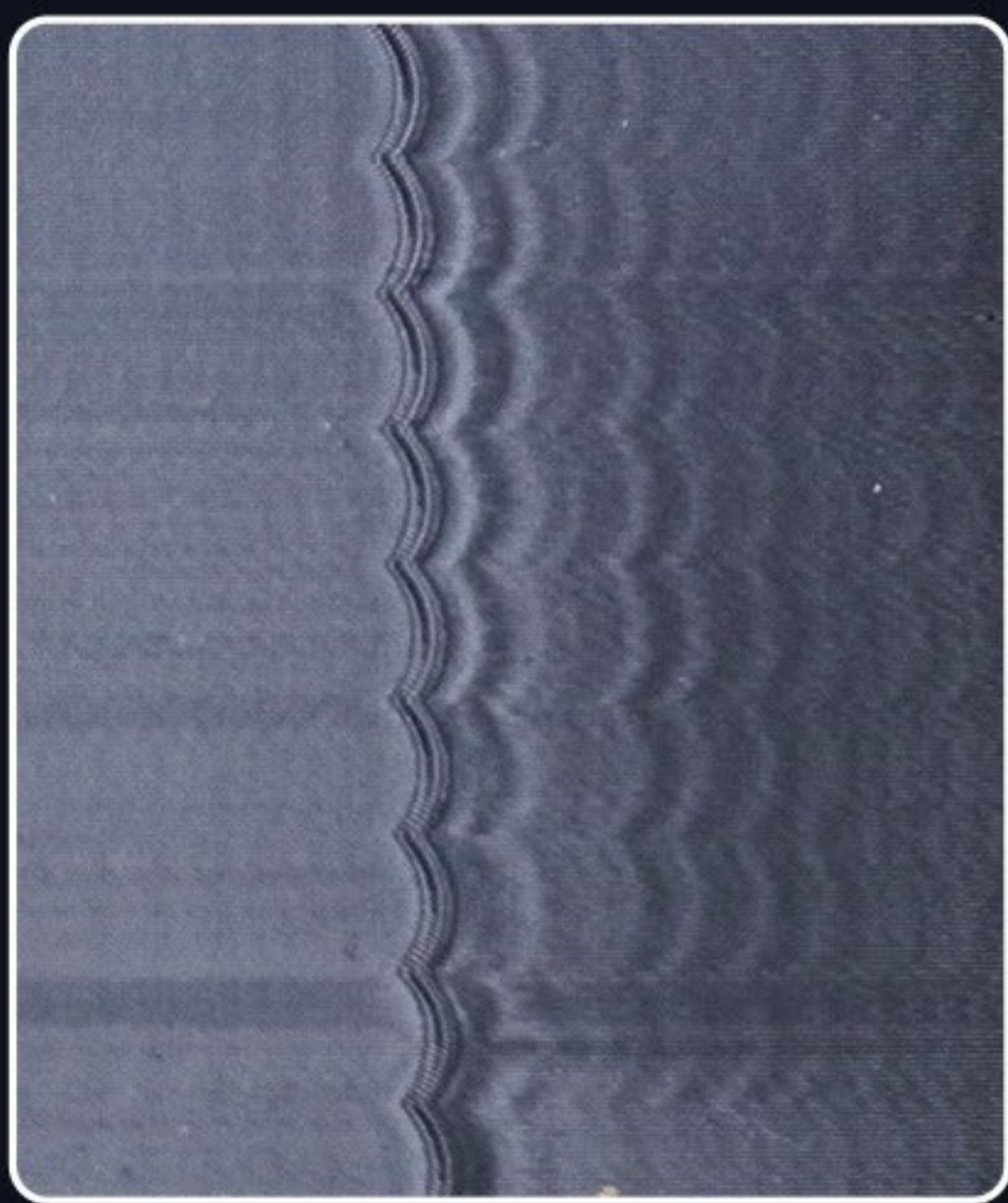


# Innovative IDEX Calibration



## 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

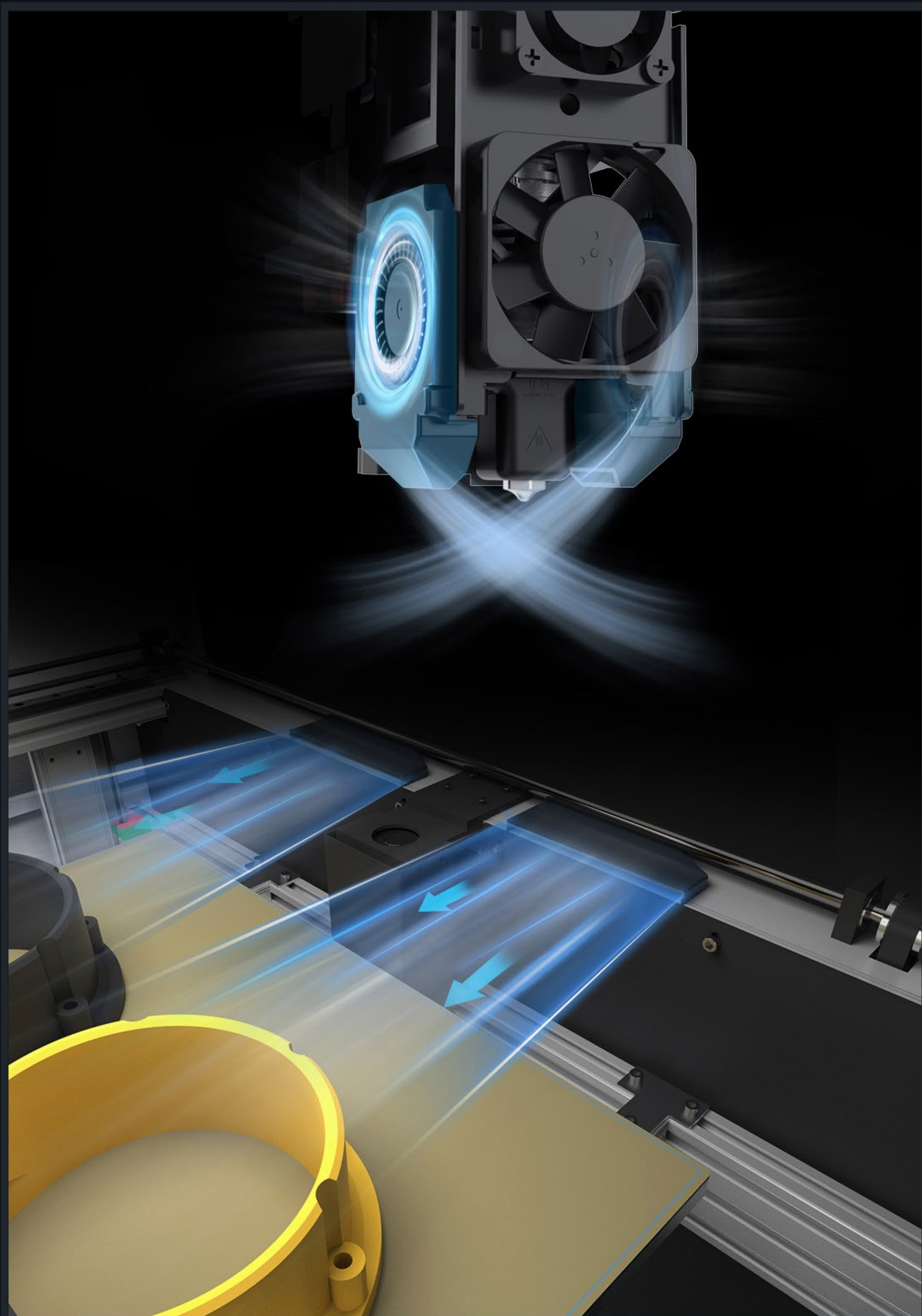


ON

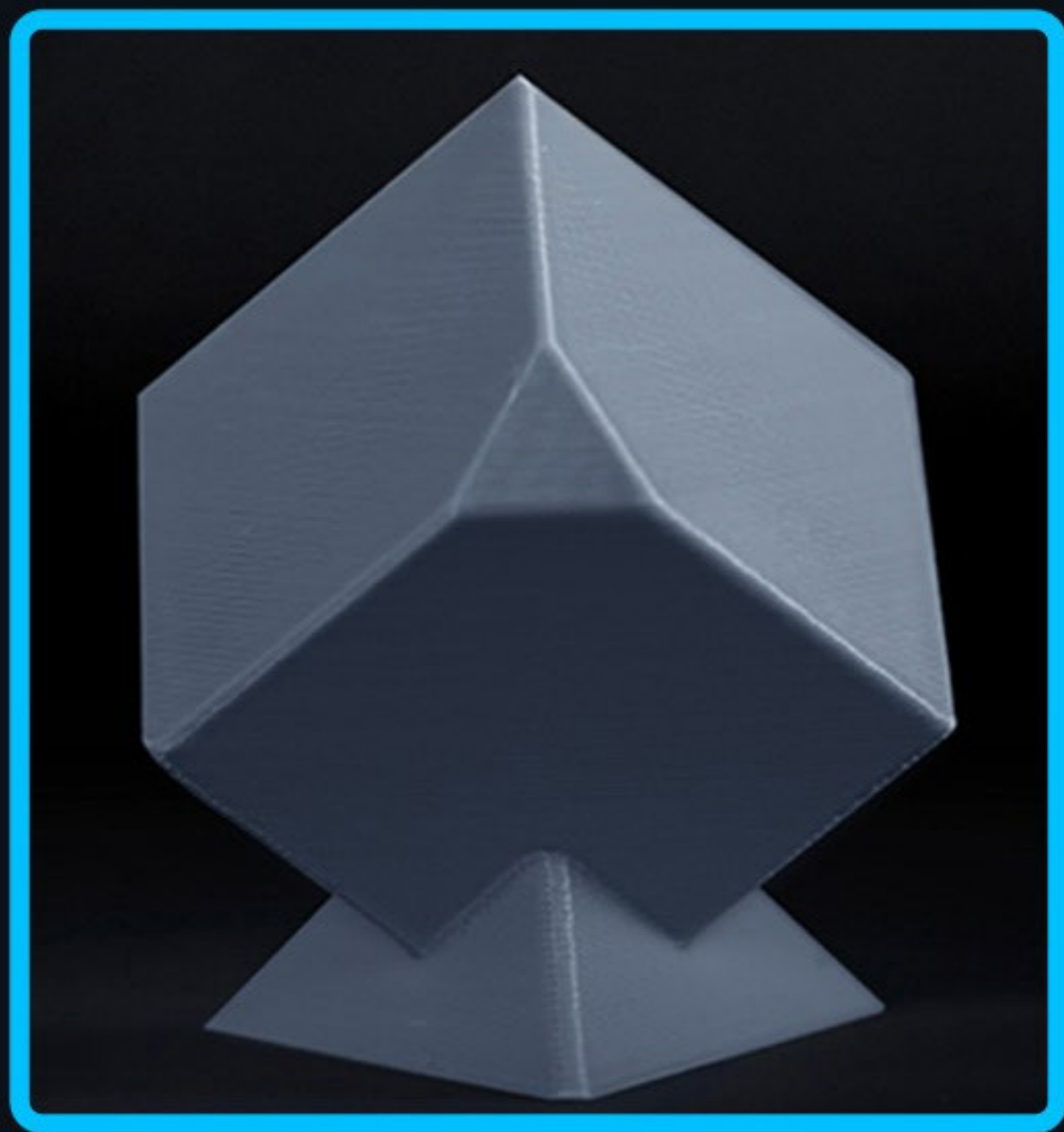
# New Cooling System Design

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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

# 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**

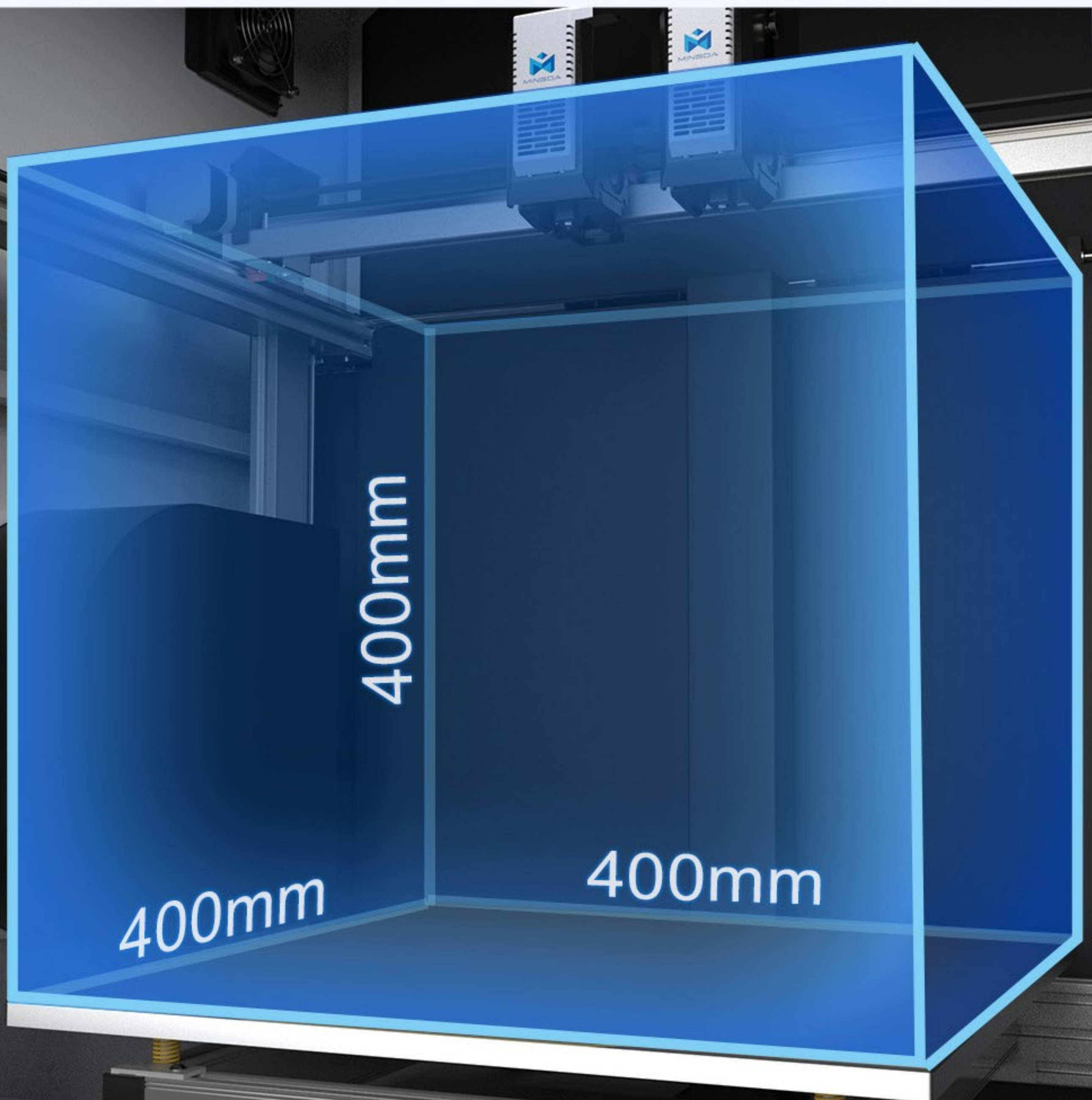
Printing Speed: **50mm/s**

Printing Time: **4 days**

\* The experimental data is for reference only

# Large Build Volume

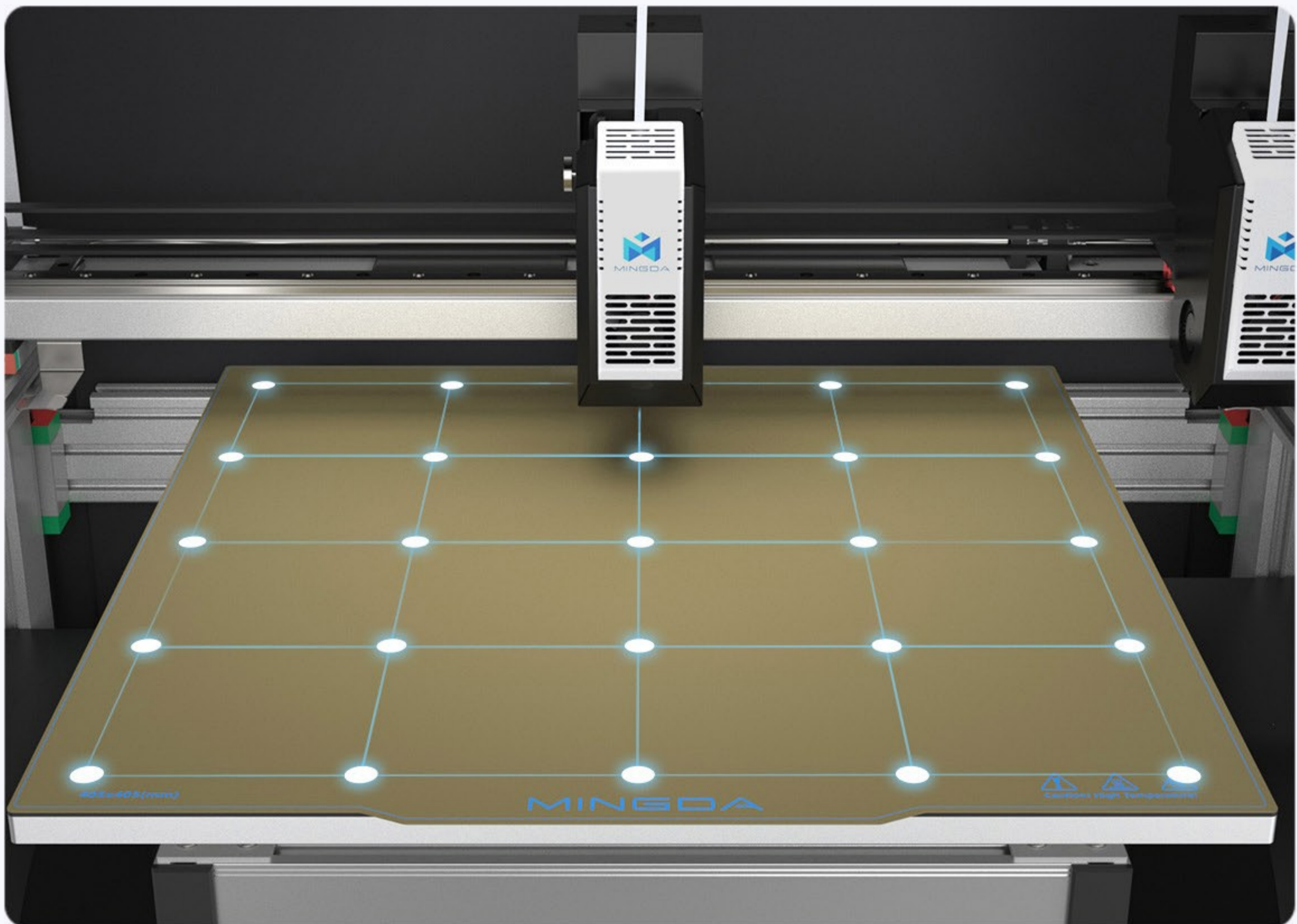
Printing size: 400mm\*400mm\*400mm;  
meets most prototype printing needs.





# Hands-free Auto Leveling

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



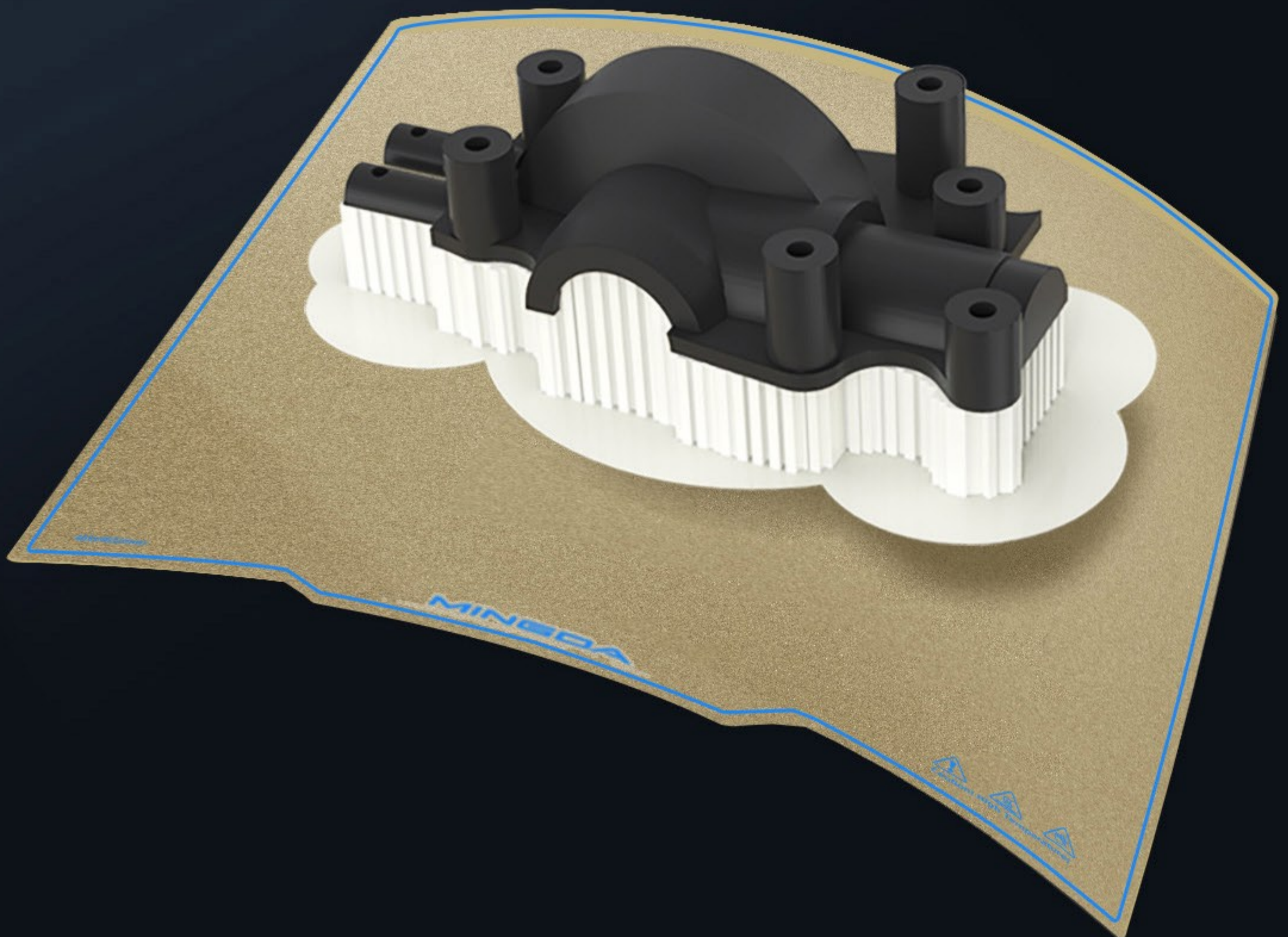
# Remote Printing Multi-Machine Control

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

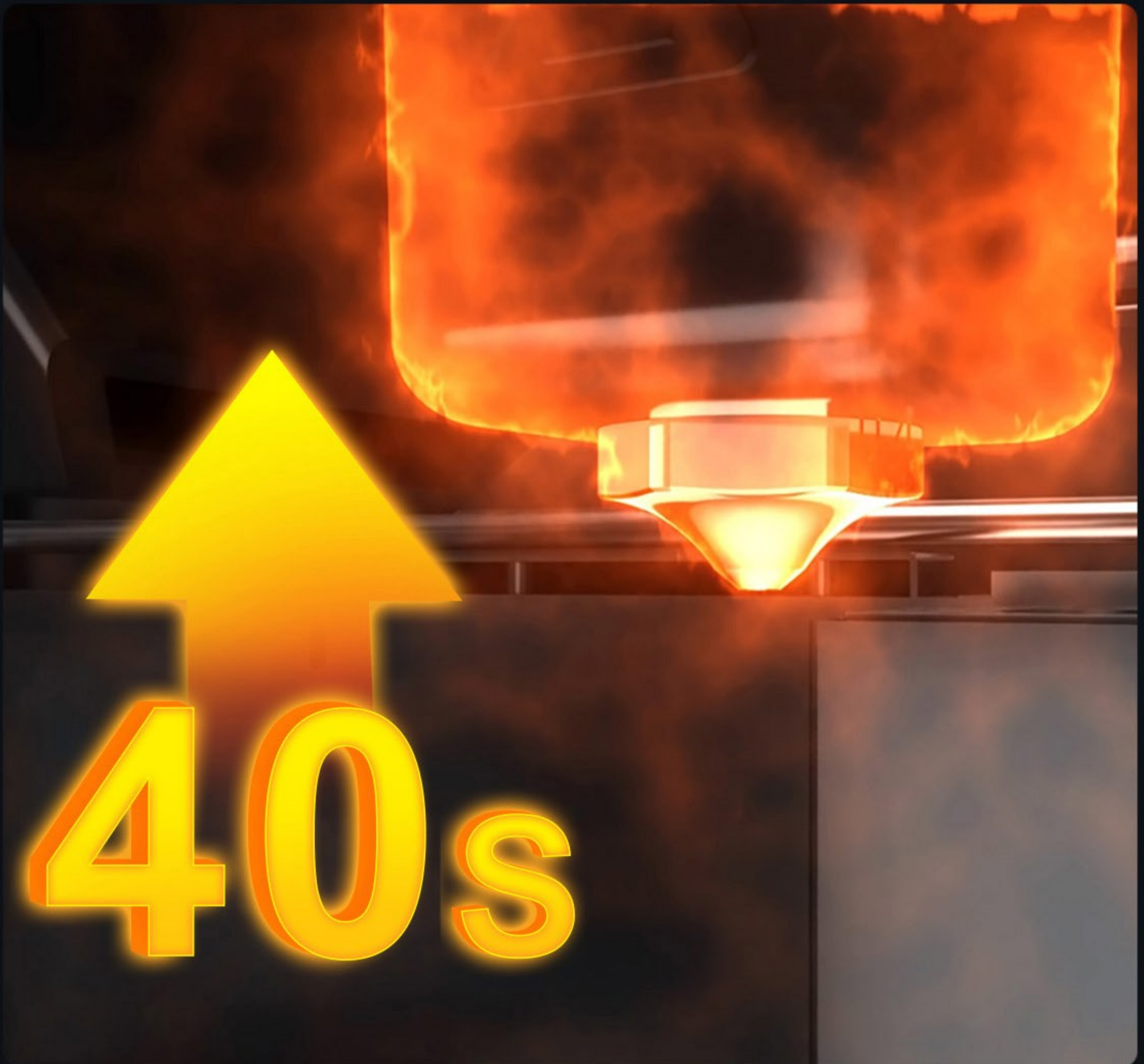
It has strong adhesion, high temperature resistance, and is suitable for various consumables. It can be easily removed by bending.



# Quick Heating Hotend

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Max temperature of hotend is 350°C. It can be heated to 200°C in about 40 seconds;  
The heating speed remains unchanged at 220V and 110V voltages.



# MINGDA Self-developed Core Hardware Delivers Speedy Smooth Performance.

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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 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.

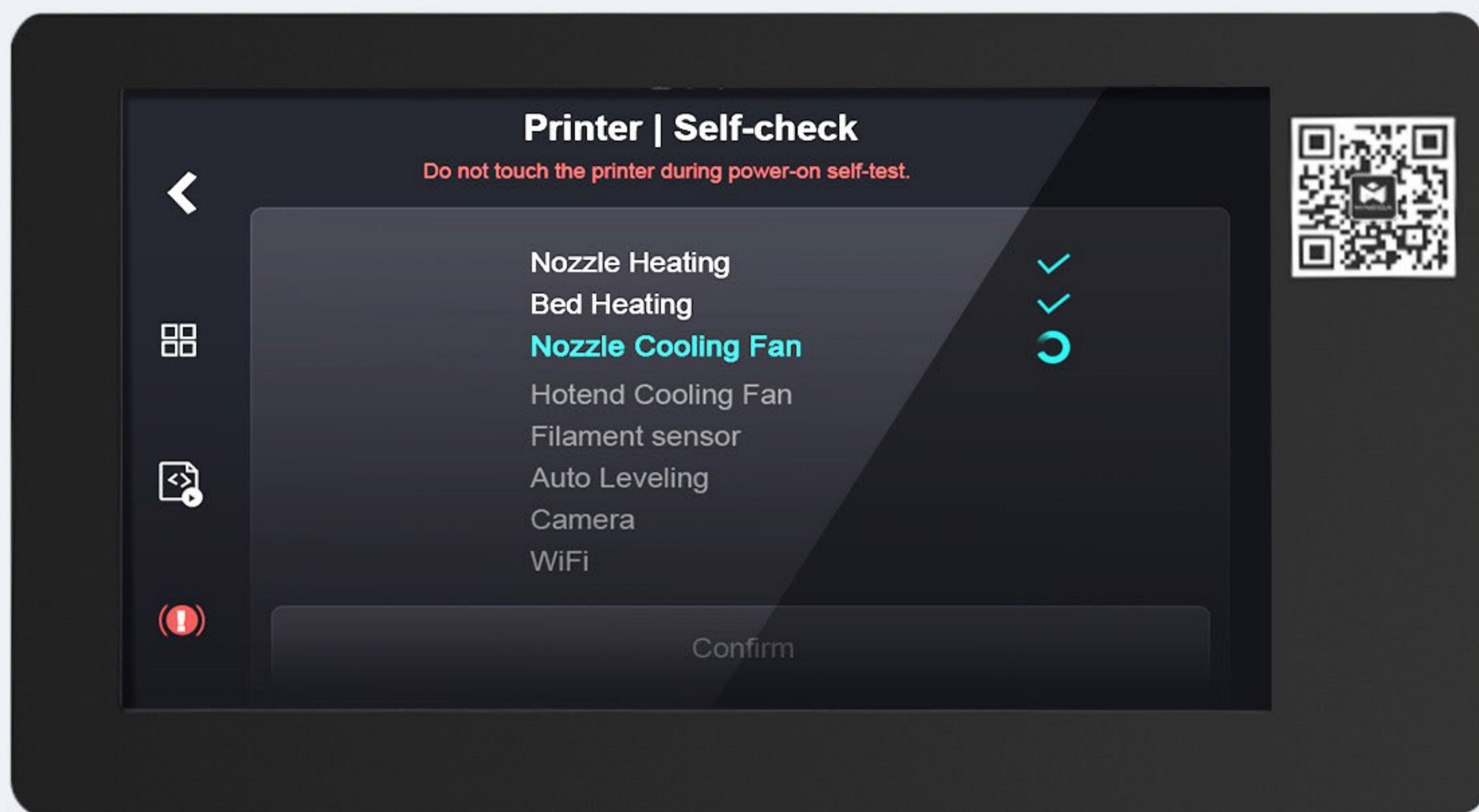


## Support multiple languages

1. English
2. Danish
3. German
4. Spanish
5. French
6. Hebrew
7. Hungarian
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

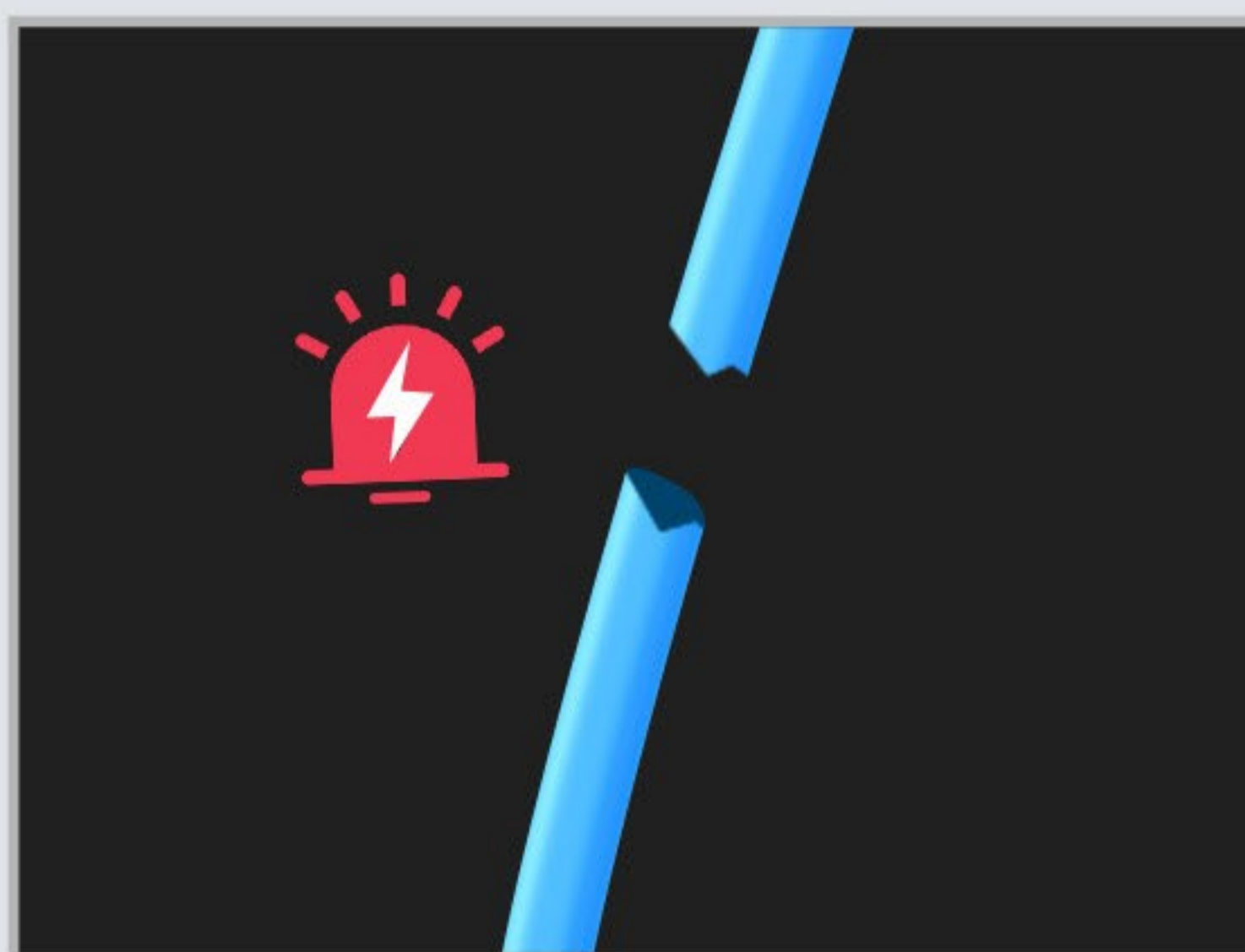
# Self Check when Power on

When power on it can 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-Mult, 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





# Product Parameters

Model:	MD-400D
Print Technology:	Fused Deposition Modeling (FDM)
Print Volume:	400 * 400 * 400 mm
Copy Mode:	400(2*200)*400*400 mm
Mirror Mode:	320(2*160)*400*400 mm
Max nozzle temperature:	690 * 790 * 910 mm
Extruder Type:	IDEX (Independent Dual Extruders)
Nozzle Diameter:	0.4mm (0.6, 0.8, 1.0 mm optional)
Extruder Temperature:	≤350°C (Recommended temperature ≤320 °C)
Platform Temperature:	≤110°C
Max Flow:	40mm <sup>3</sup> /s
Max Print Speed:	500mm/s (Recommend Printing Speed: 200-300mm/s)
Support Software:	MingDa OrcaSlicer, Prusa Slicer, etc
Display Screen:	7-inch HDMI touch screen
Input Voltage:	100/240AC 50/60Hz
Rated Power:	800W
Firmware:	klipper
Filament Compatibility:	<b>Common filament:</b> PLA, TPU, PETG; <b>Engineering filament:</b> PA-CF/GF, PET-CF/GF, HtPA-CF/GF, ABS-GF25, ABS-CF20, PA-GF25/CF25; <b>Support filament:</b> S-Mulit, S-HtPA, PVA, etc