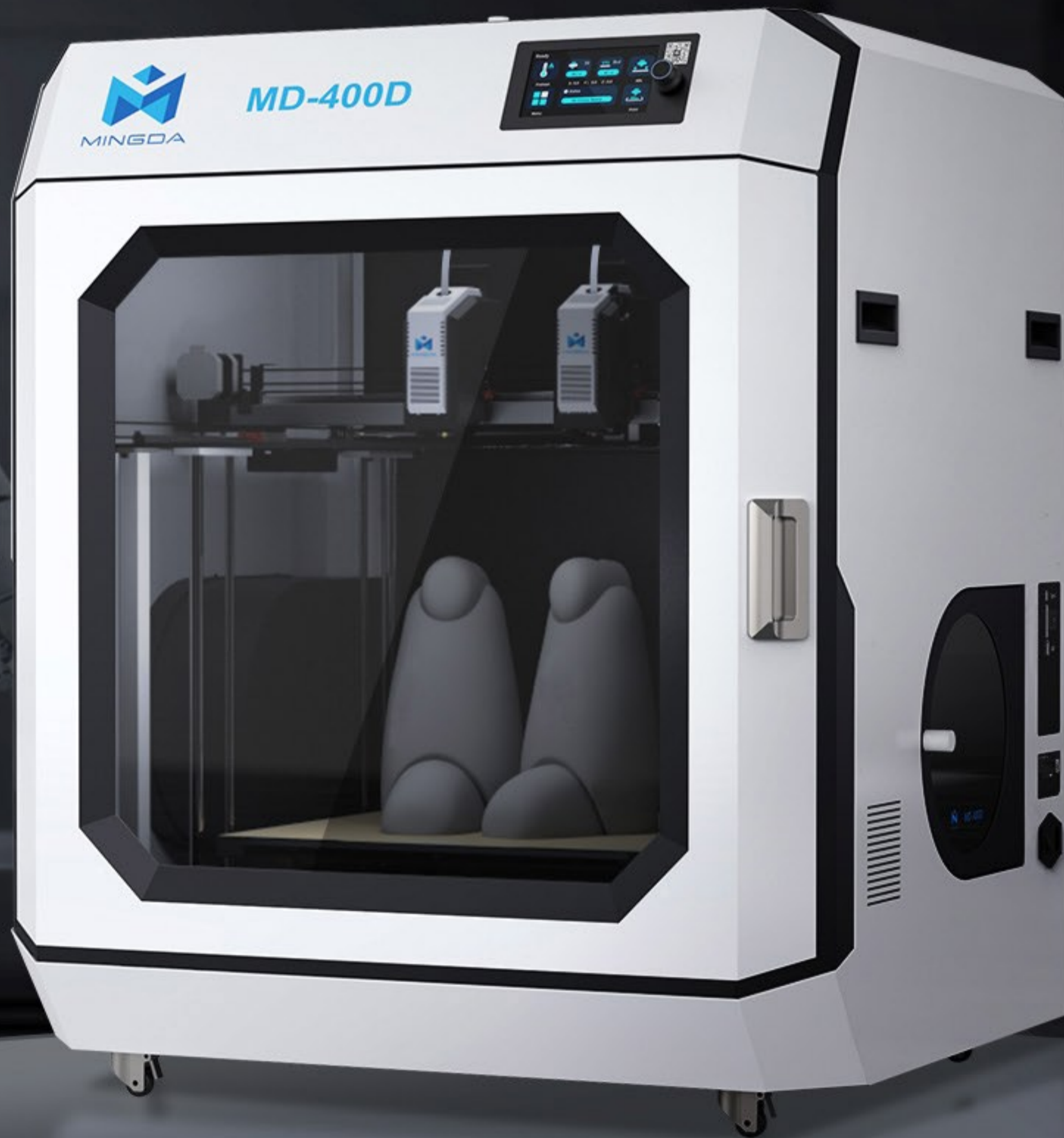# MD-400D

Large High Temperature IDEX 3D Printer

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

10 Advantages

350 degrees Direct extruder

IDEX System

Dual Colors & Dual Materials Mode

Duplication & Mirror Mode

Fully Enclosed Metal Structure

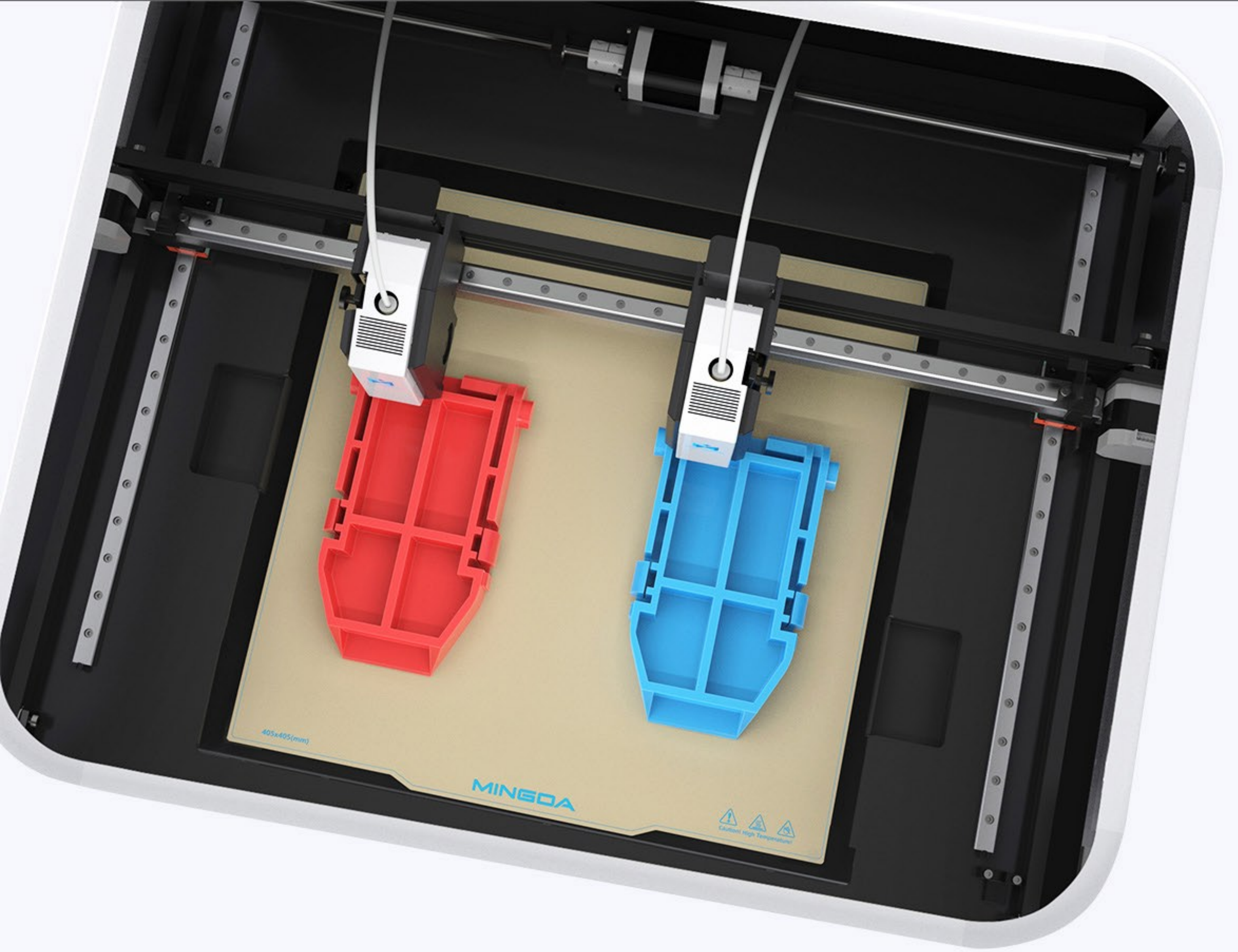**Auto Leveling System**

Removable PEI Plate

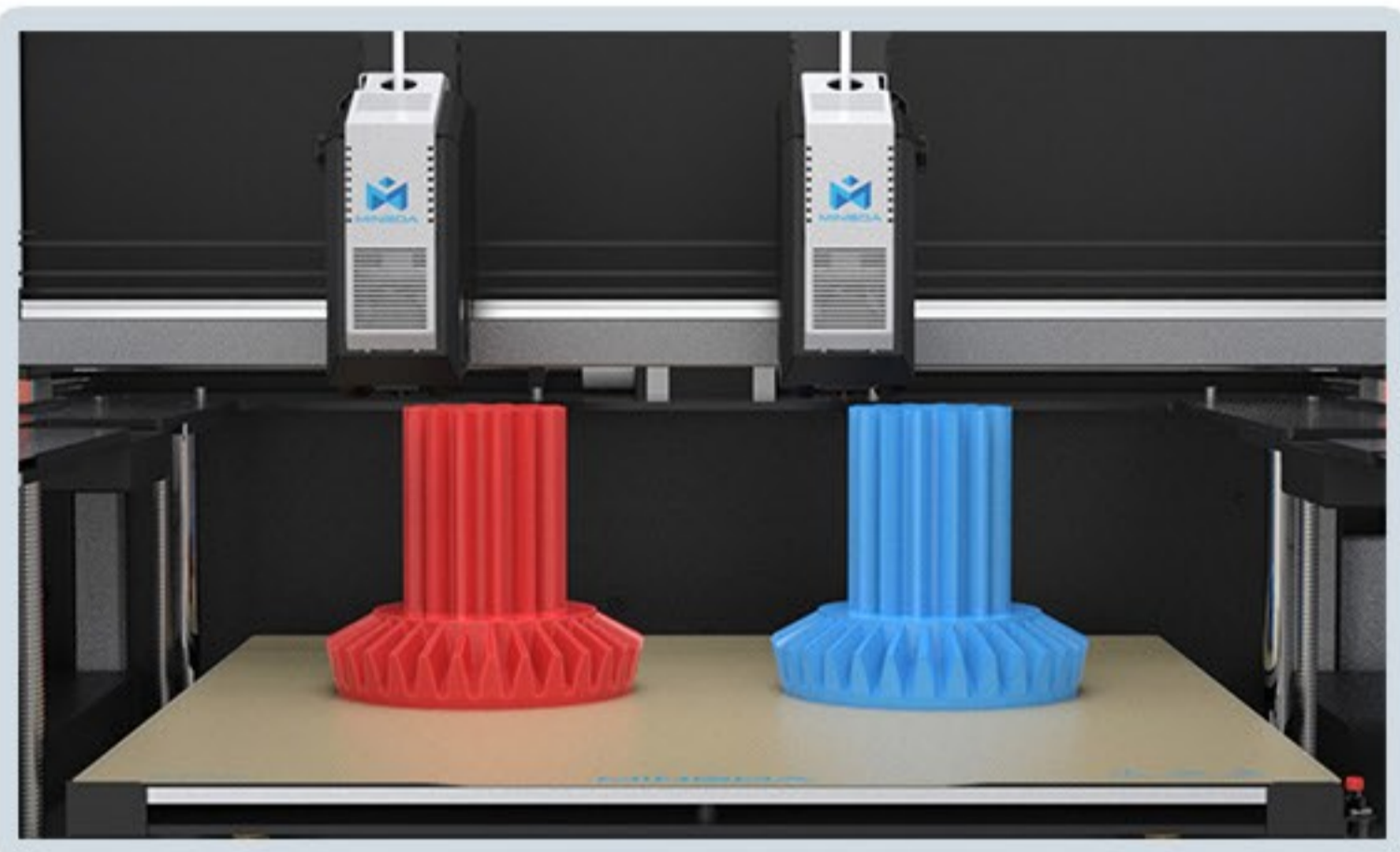**Fast Print**

Air Filtration System

Leakage Protection

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.
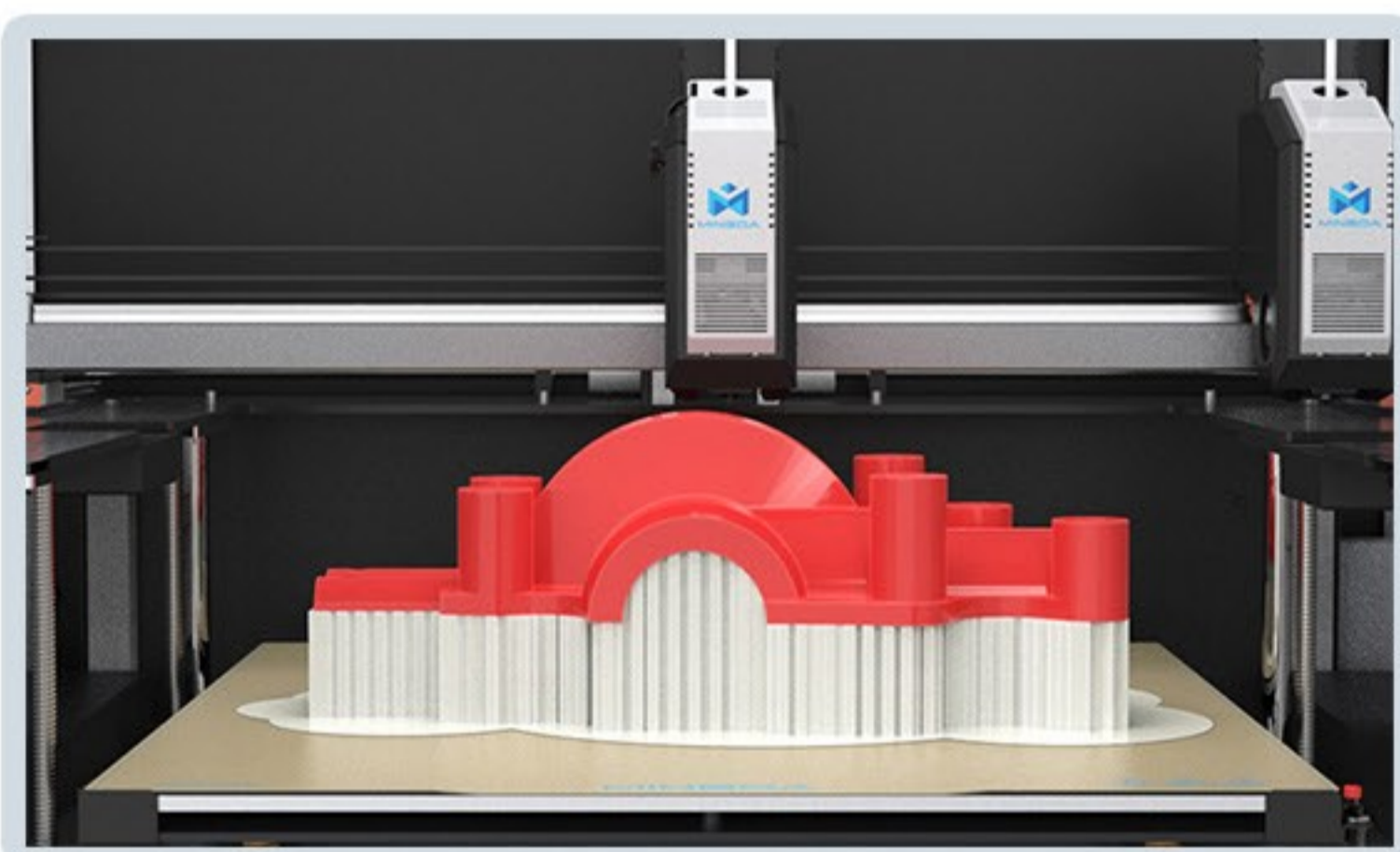
Four Printing Modes

Duplicate Mode

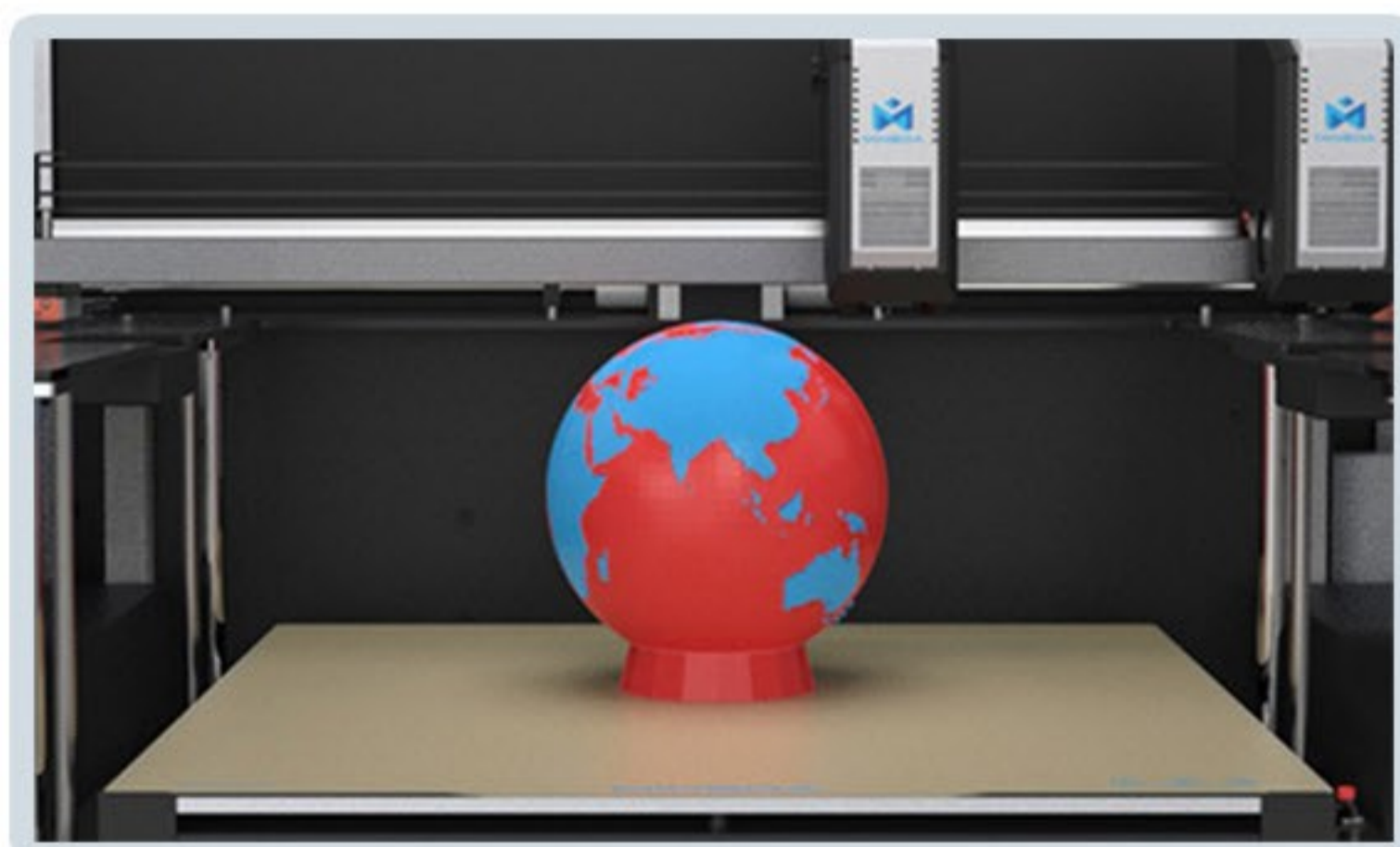Equivalent to 2 printers working, achieve double productivity

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

Two Temperature Modes
To Meet Different Material Requirements

MD-400D is a flexible, high performance and commercial industrial 3d printer. It's equipped with two types of extruders, therefore various printing needs can be met selecting the matching module according to different types of filaments.

EXTRUDER HT

Higher than 250 degrees
(High Temperature Hot End)

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

EXTRUDER N

Below 250 degrees
(Normal Hot End)

250°C

PLA
PETG
ABS
TPU-95A
PVA

MINGDA
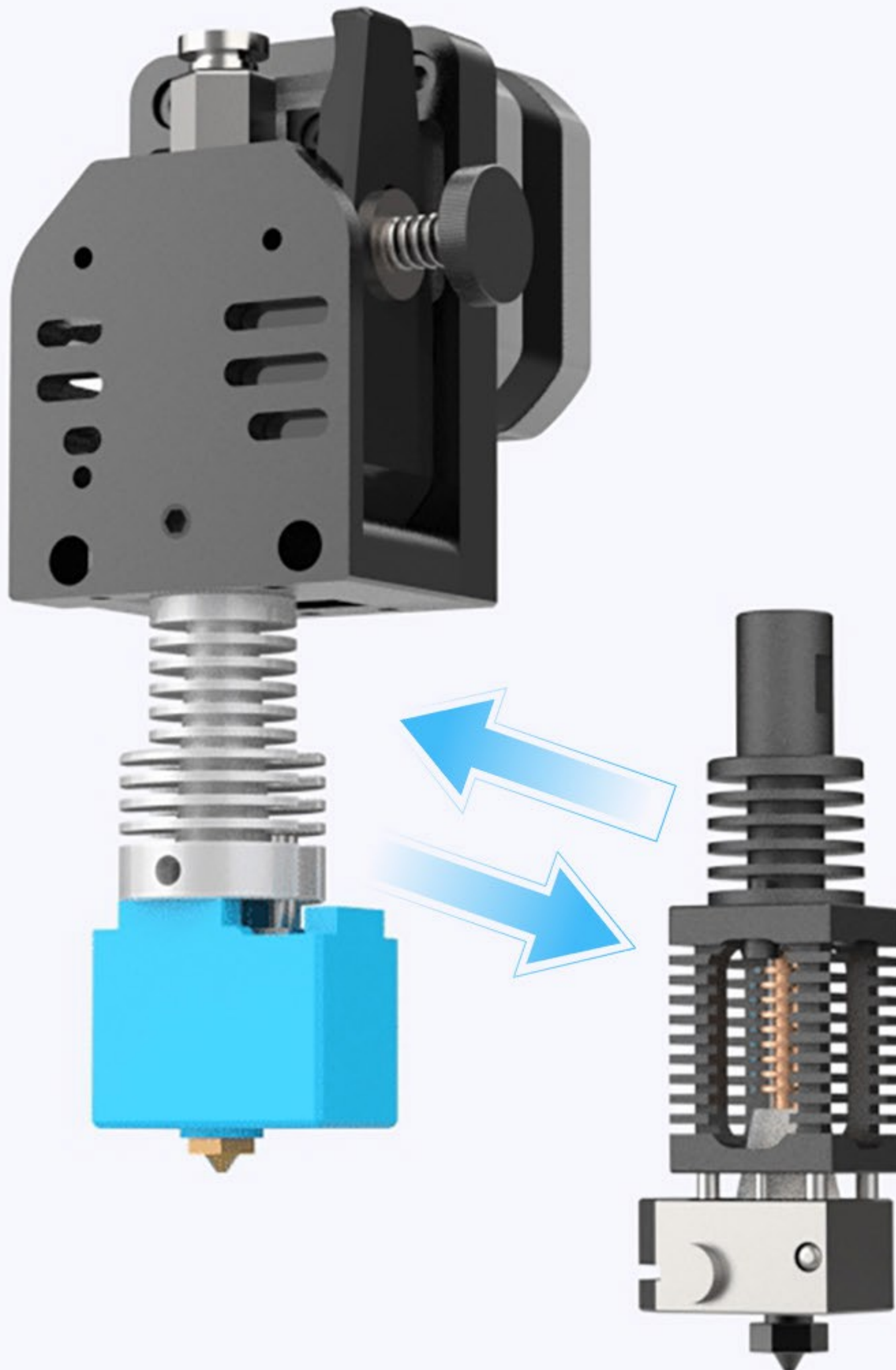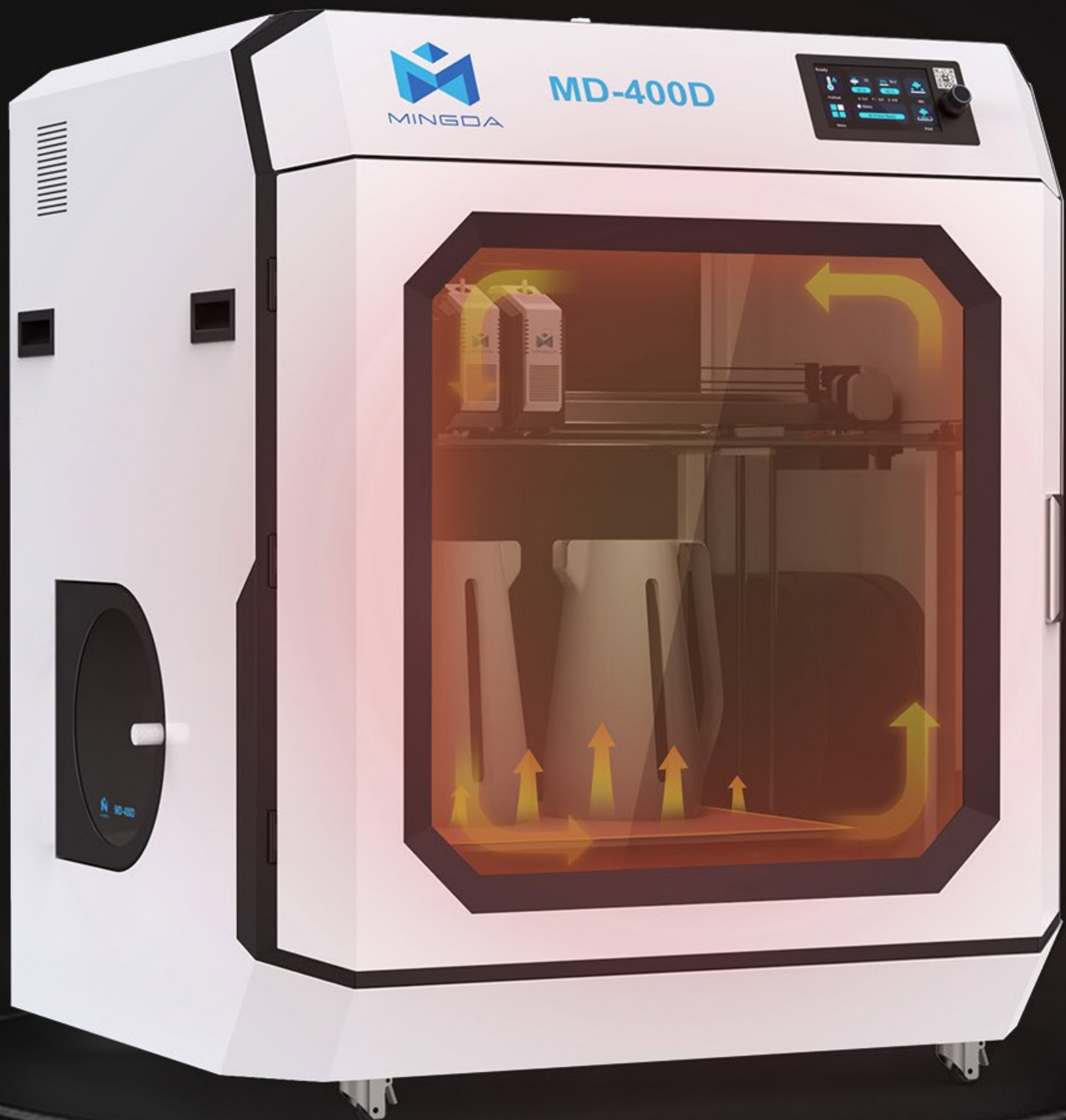
Easy-Swap Hot Ends

Support for printing different kinds of filaments
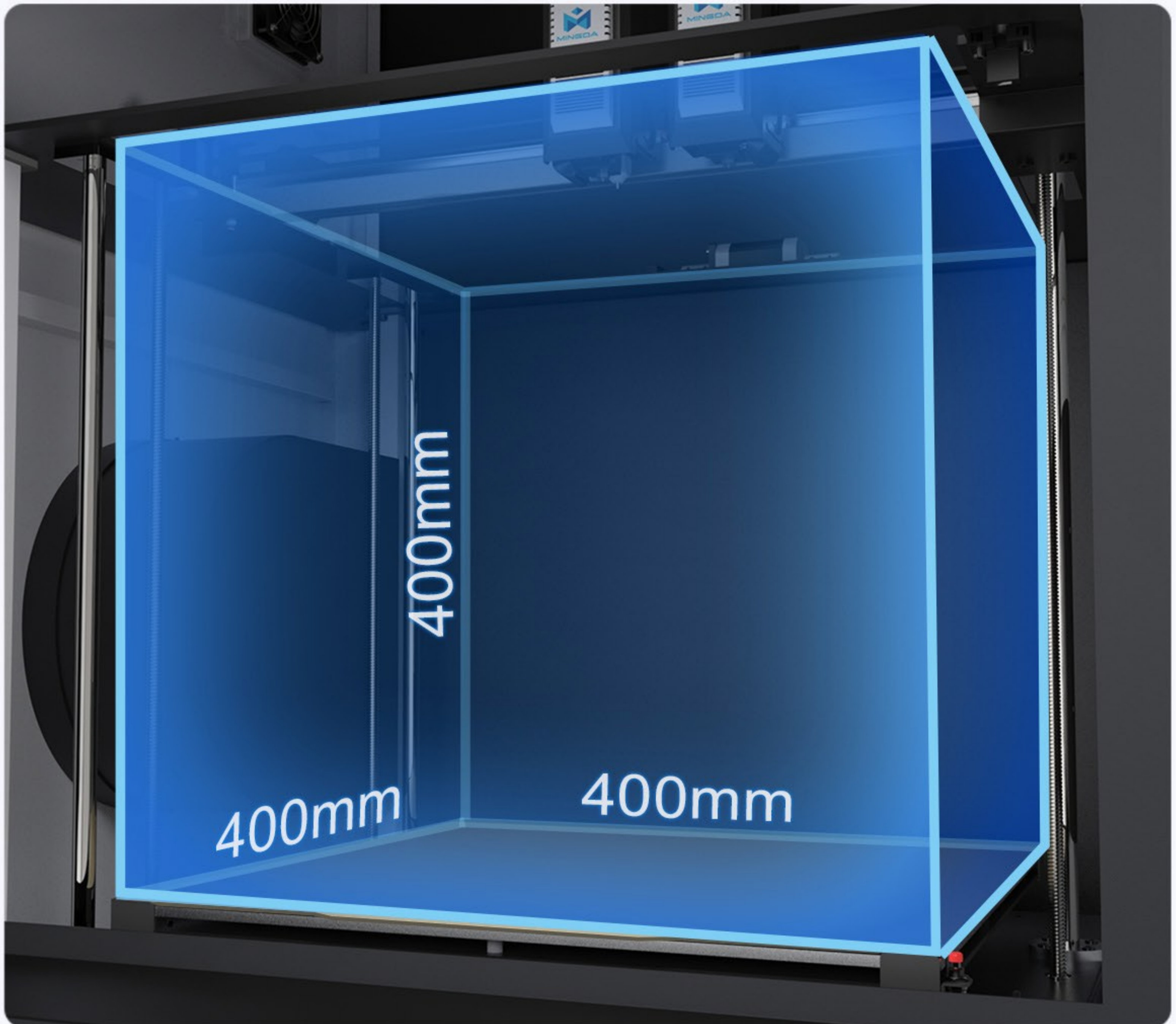
Fully Metal Enclosed Structure

The fully enclosed structure of the MD-400D helps maintain temperatures printing with ABS and other advanced materials for high-quality prints. This reduces issues like model shrinkage, warping at corners, and broken filaments, ensuring good print results, high precision, and a high success rate.

Large Build Volume

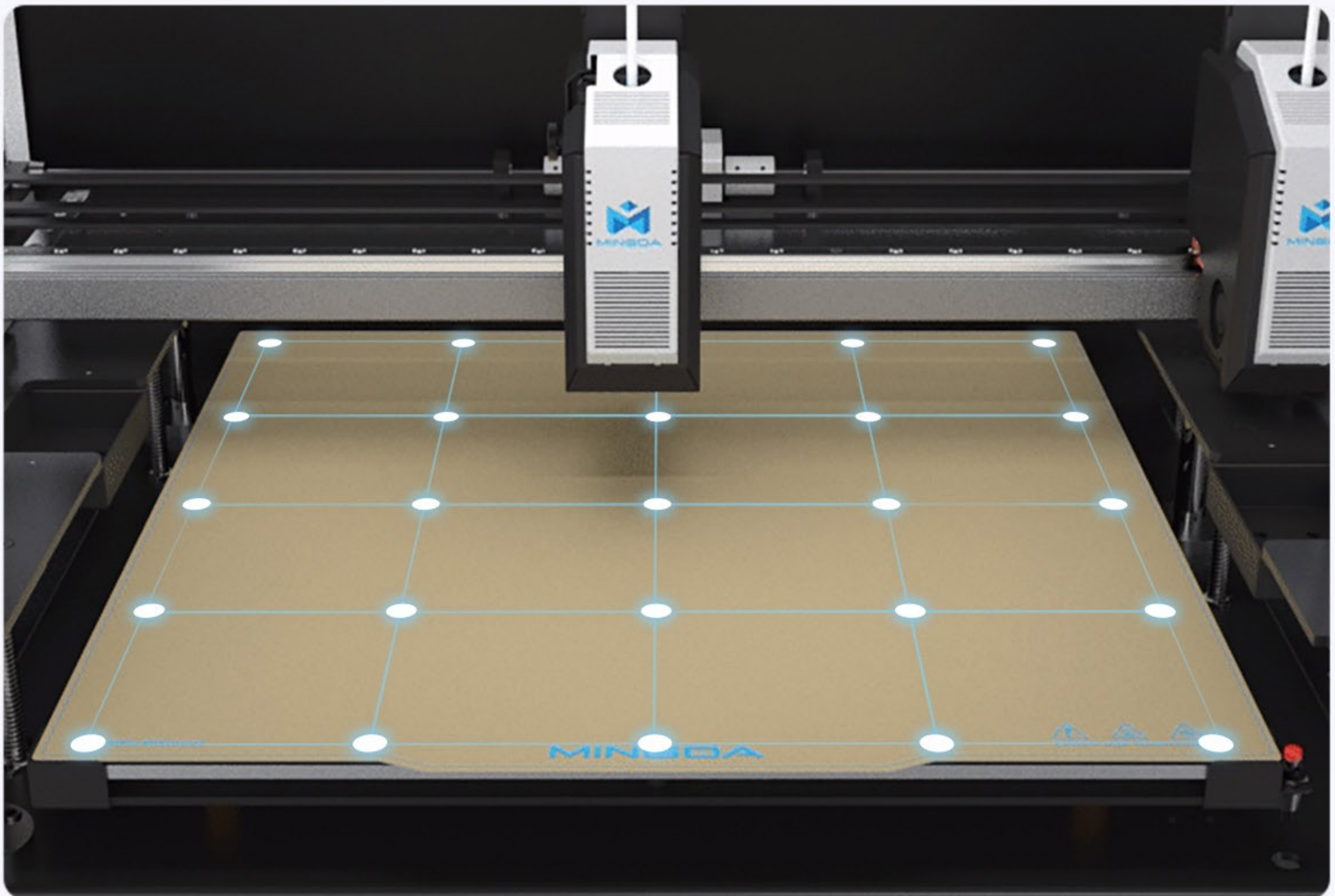Printing size: 400mm*400mm*400mm;
meets most prototype printing needs.

Free Leveling

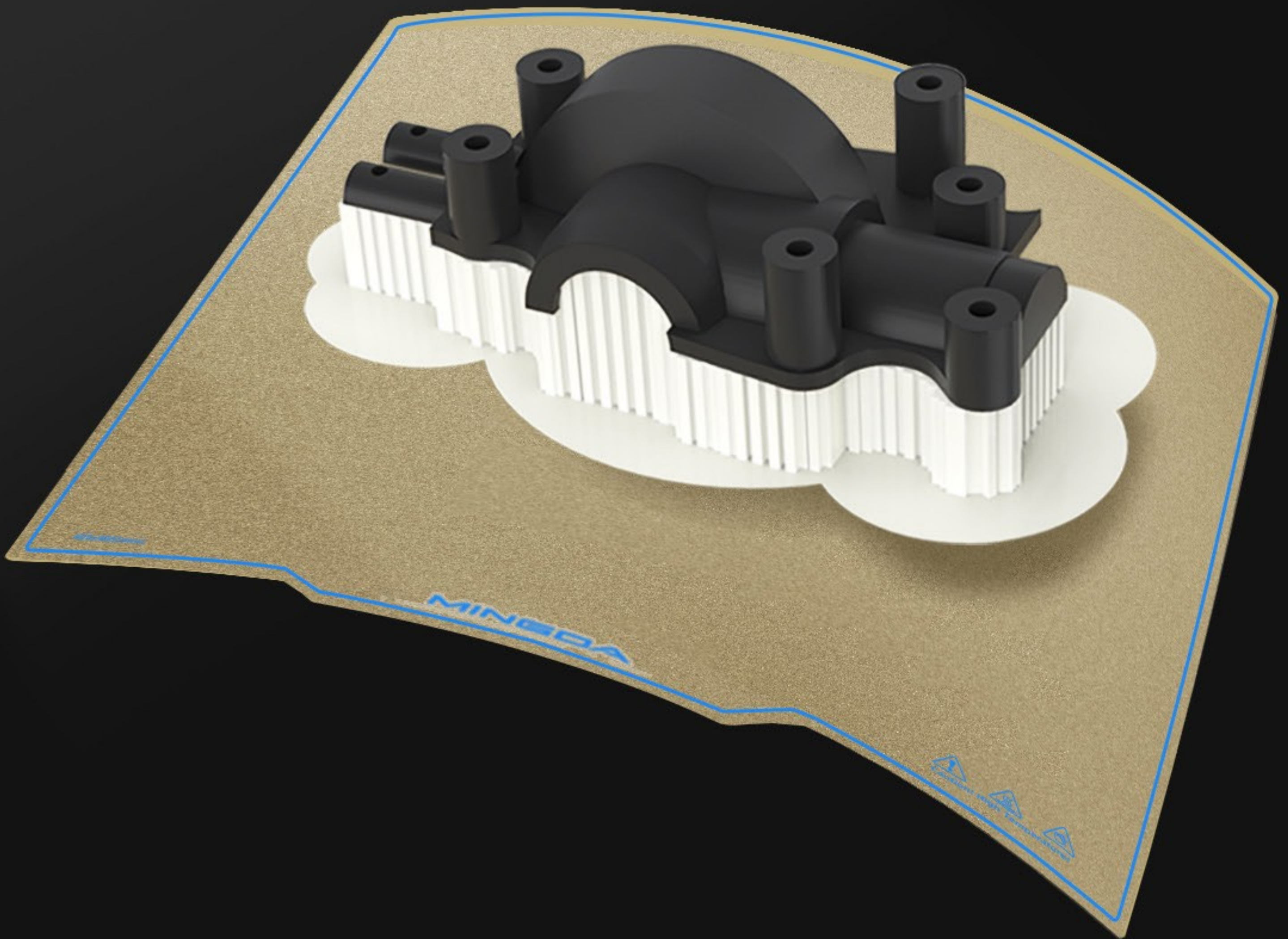The automatic leveling system greatly improves printing efficiency and quality stability. It helps to reduce failed prints caused by an unleveled build plate. The precise calibration of nozzle distance also enables 3D printers to print models with finer layer resolution.

Flexible PEI Platform

With good viscosity, the model is not easy to warp during the printing process and easy to remove after finished printing
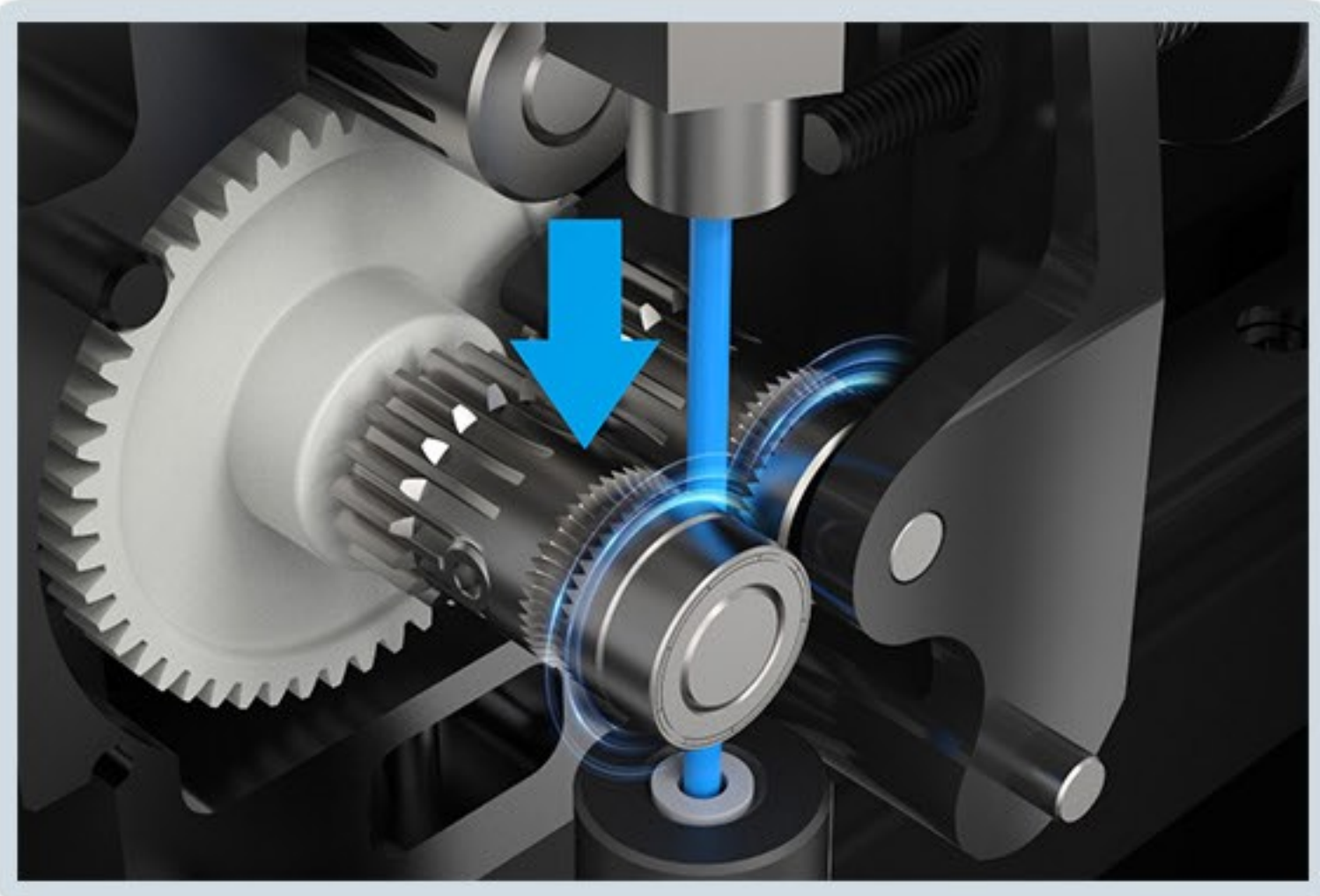
Air Filtration System

During the printing process, the air filtration system can effectively clean particles (including nanoparticles) in the air. The system operates silently to ensure a quiet working environment.
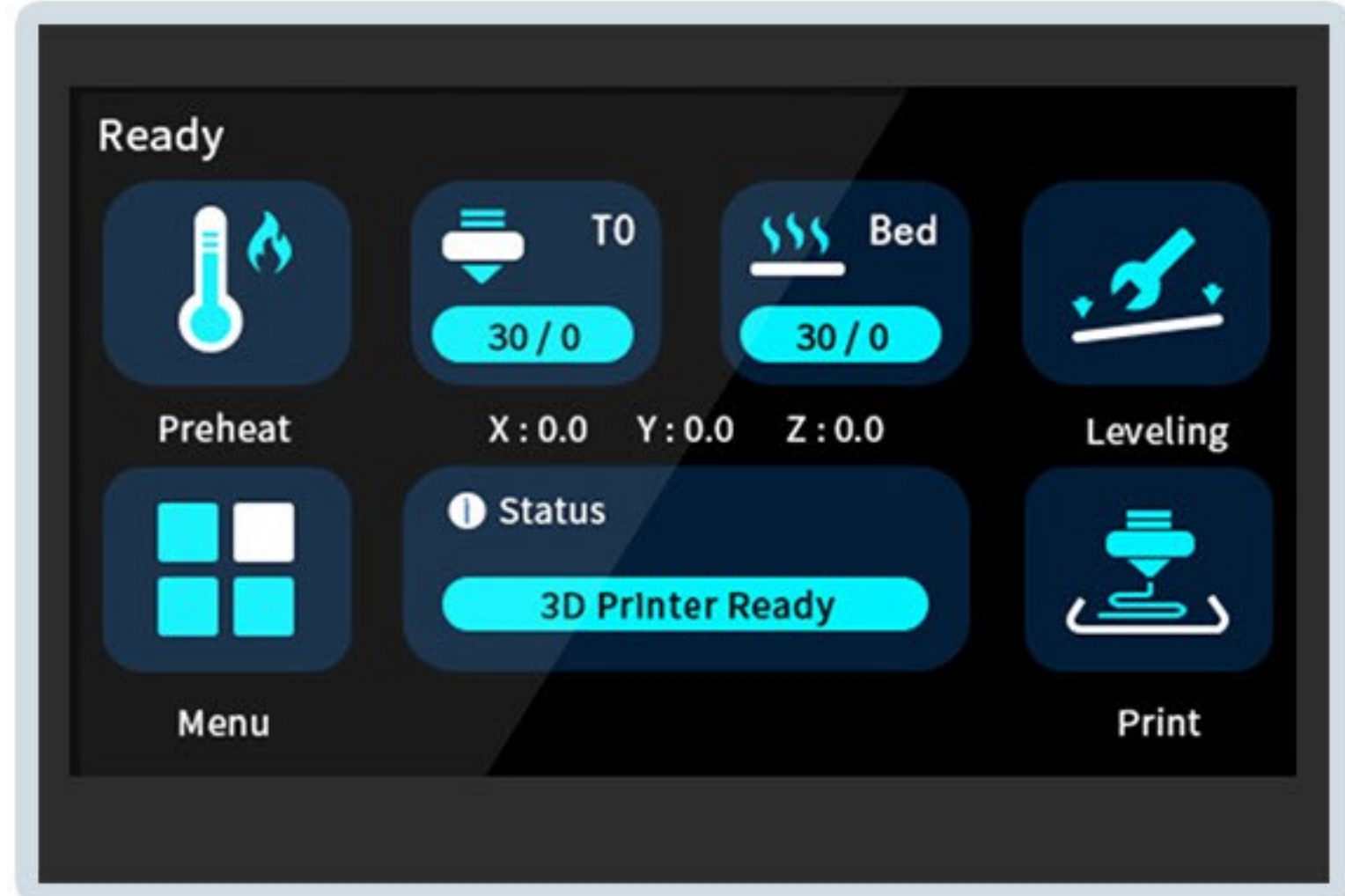
Other Details

Double Gears Direct Extruder

With strong pushing force for more stable & accurate printing greatly reduces the risk of under extrusion

Ready

Preheat

T0
30 / 0

Bed
30 / 0

X : 0.0   Y : 0.0   Z : 0.0

Leveling

Menu

Status
3D Printer Ready

Print

5 inch Colorful Touch Screen

Large screen, simple operation

Smart Resume Printing Function

The machine can automatically resume printing after power-off, 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, ABS, TPU, PETG, ASA, 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
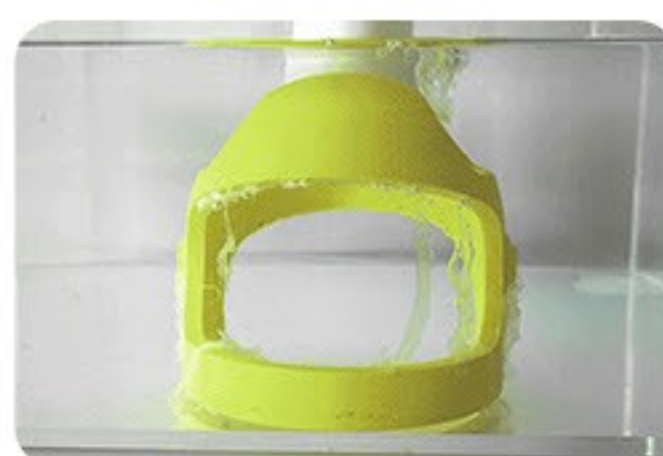
New Product Design And Development

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
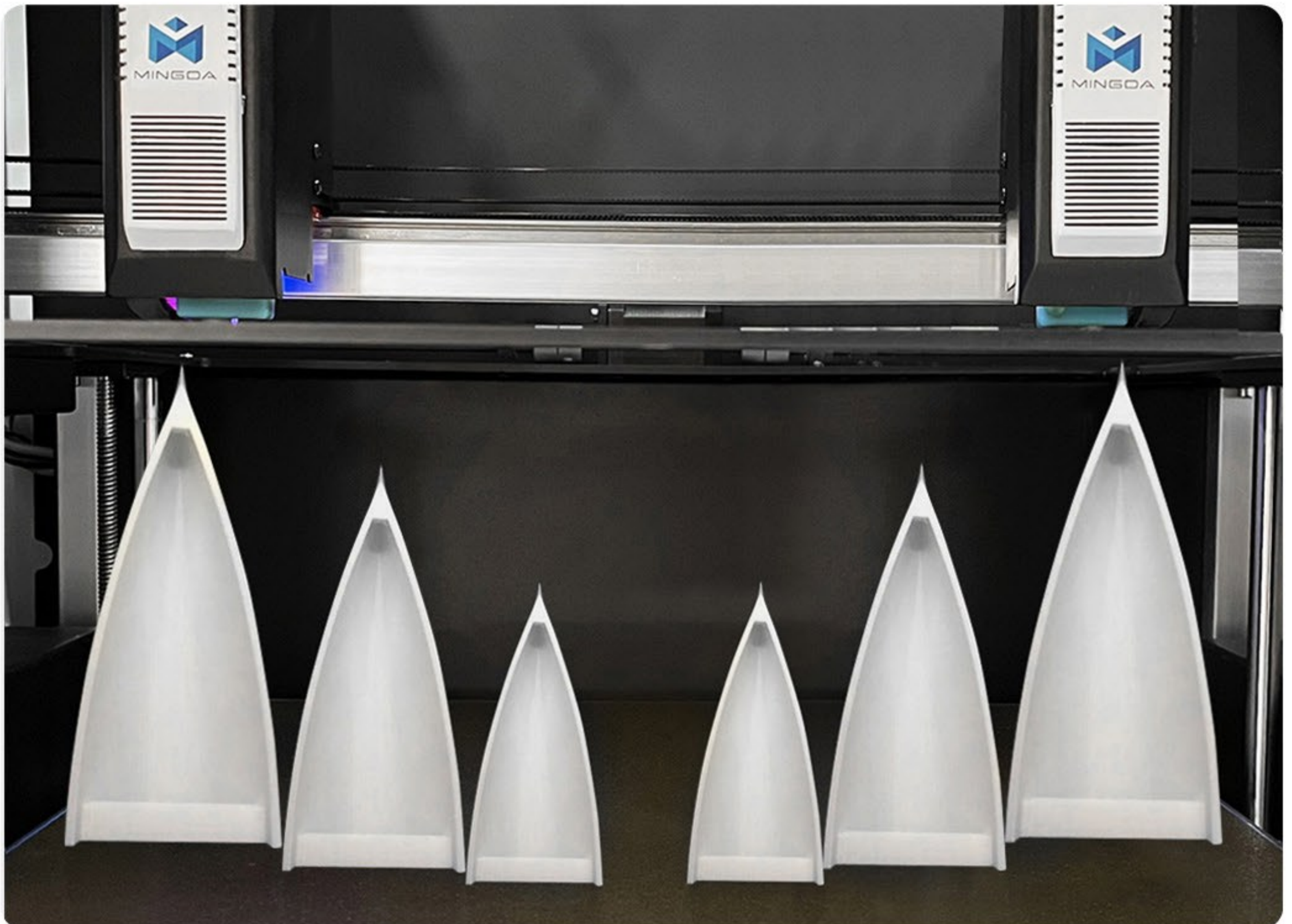hollow structures is made possible by using water-soluble filament.

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	350(2*175)*400*400 mm
Extruder Quantity	2
Nozzle Diameter	0.4mm (0.6mm, 0.8mm optional)
Filament Diameter	1.75mm

Filament Compatibility	Common filament:
	    PLA, ABS, 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	Type-C, SD card, 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
Recommend Printing Speed	60-100 mm/s
Max Printing Speed	200mm/s
Print Precision	± 0.1 mm
Platform	PEI
Package Weight	112.5Kg
Package Size	82x72x108cm
Support Software	MINGDA-Cura, Reptier-Host, Simplify3D
Supported File Types	Stl, Obj, G-code
Operating Systems	Windows(7,8,10), Mac OS X