

Creality K1 MAX 3D Printer

K1 Max
Speedy. Smart. Super.



600mm/s
Printing Speed



Versatile
AI LiDAR



Observant
AI Camera



300*300*300
Large Build Volume



Super Power of Speed

CoreXY

Structure

600mm/s

Max Speed

20000mm/s²

Acceleration

32mm³/s

Flow

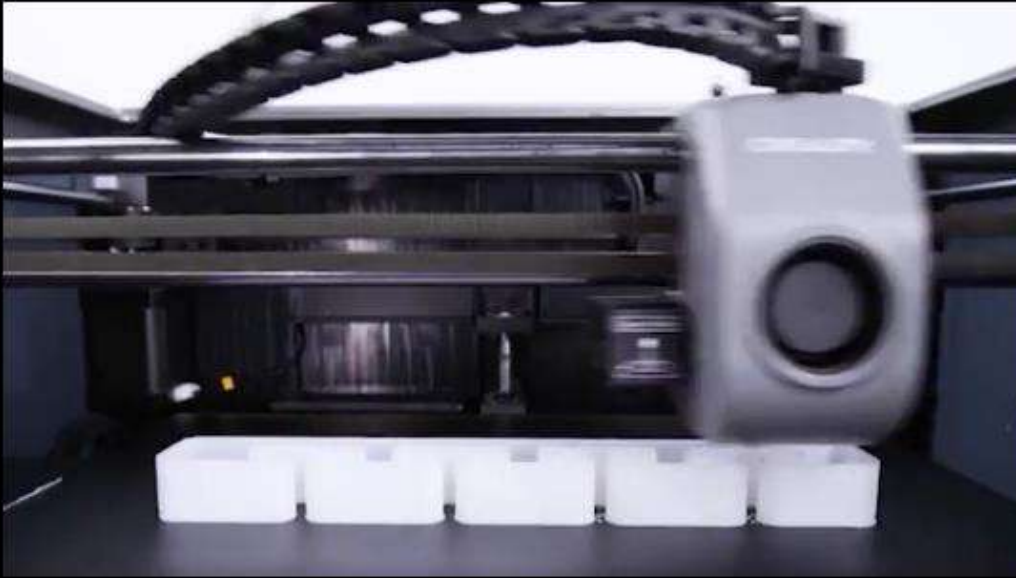
12X Faster

CREALITY

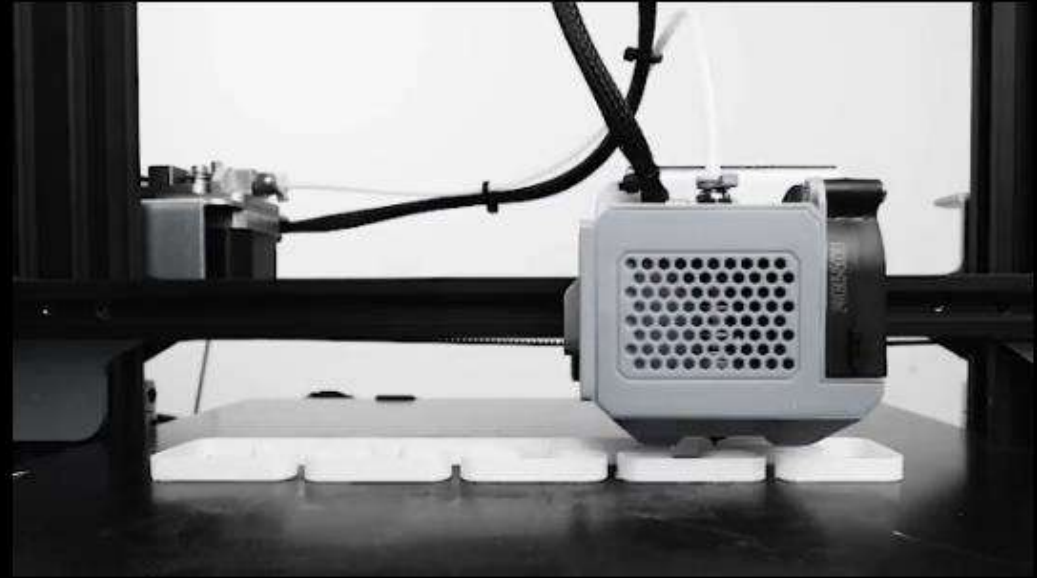


12X Faster, Defy Limitations

K1 Max reaches 600mm/s* in only 0.03s based on 20000mm/s² acceleration.
It can be as productive as several 3D printers together.



K1 Max: 600mm/s



Regular 3D Printer: 50mm/s

Gorilla H: 32cm
Split into 7 print bundles

35h30min
At 300mm/s



@toymakr3d

Benchy
ABS

13min
At 300mm/s



@3dbenchy.com

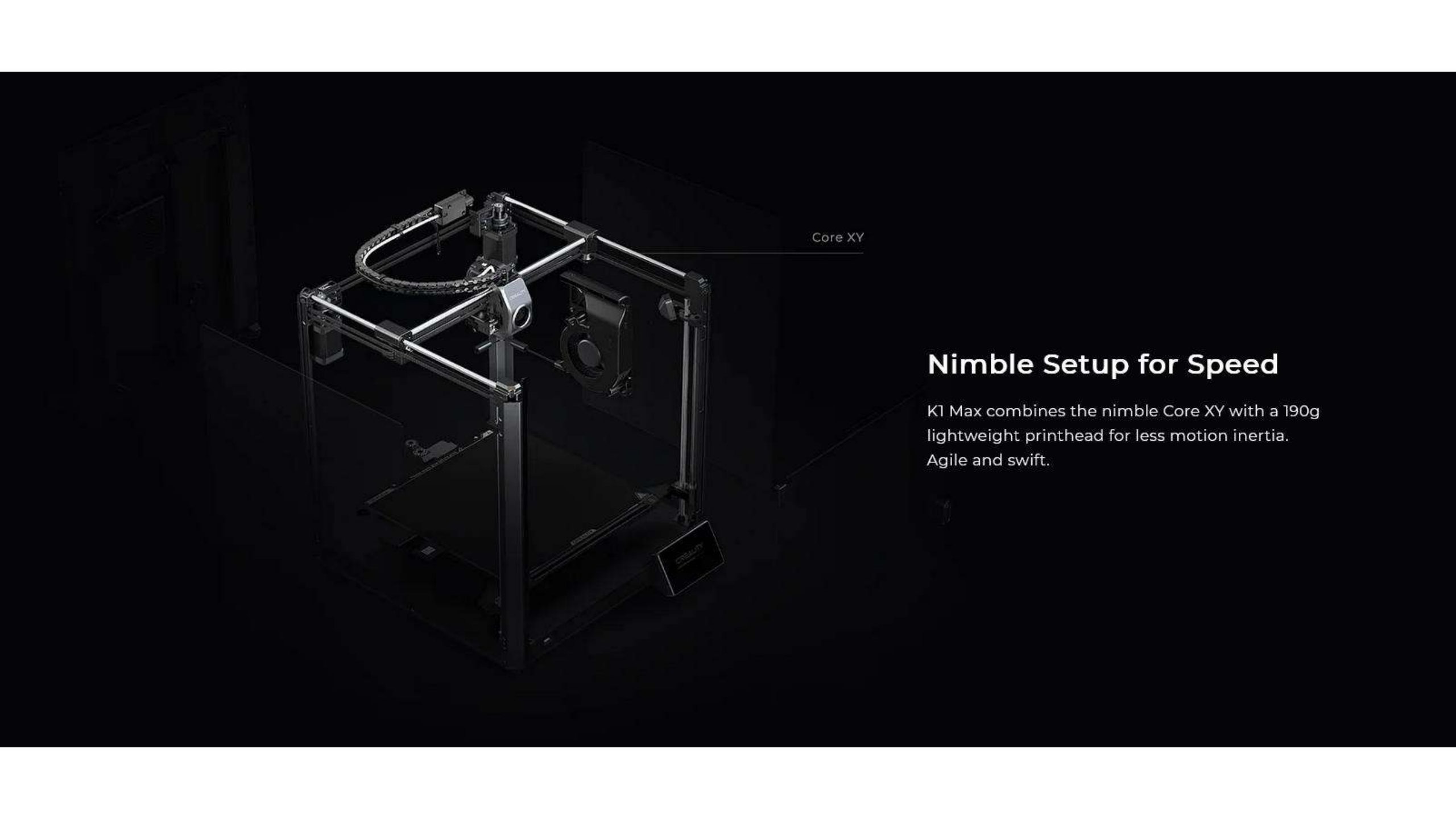
All-in-One

1h30min
At 300mm/s



* Data from Creality Lab.

* K1 Max prints faster and better with Creality Hyper PLA filament.



Core XY

Nimble Setup for Speed

K1 Max combines the nimble Core XY with a 190g lightweight printhead for less motion inertia. Agile and swift.

Max. 32mm³/s Flow

New ceramic heater, encircling the entire hotend. It heats to 200°C in 40s and melts the filament instantly.

Dual-gear direct extruder, delivering strong extrusion force.

Hotend with a titanium alloy heatbreak and a hardened steel nozzle, working with flying colors in up to 300°C.



Ceramic Heater
Encircles the Hotend

Get Cool Models On the Fly

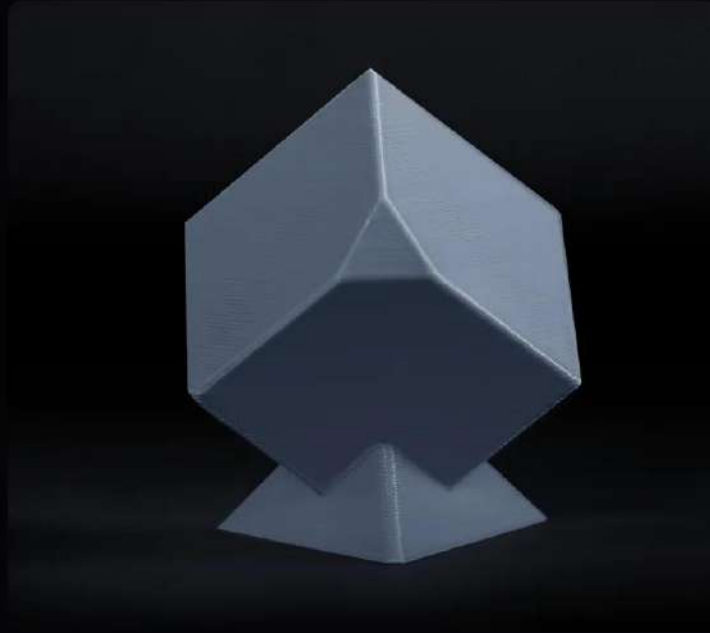


Model Cooling by Dual Fans

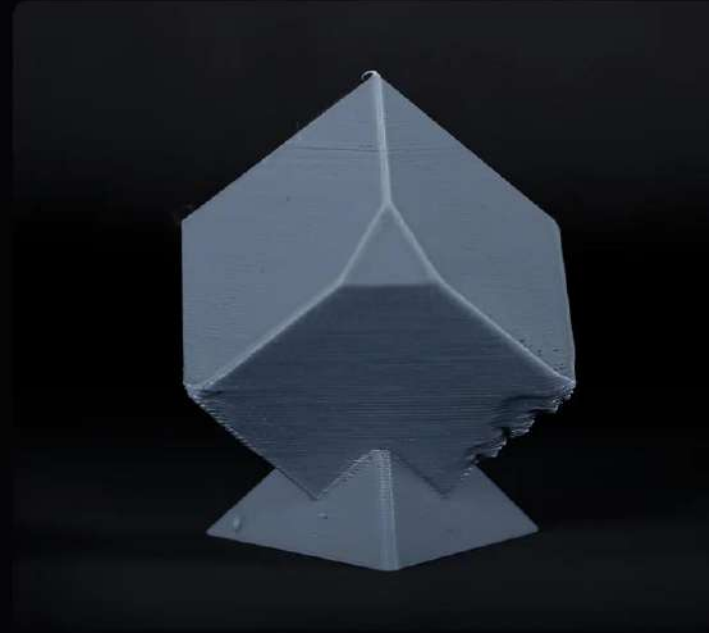
A large fan on the printhead with air ducts cools the model directly.
An 18W auxiliary fan in the build chamber enhances the cooling effect, too.



The model hardens before any stringing and warping could happen.
It allows support-free bridges and overhangs.



With Dual Cooling



Without Dual Cooling

Creality Print 4.3 with Speed Genes

The latest self-developed slicer Creality Print 4.3 includes rich presets, and streamlines the slicing process into 3 simple stages. Even better, it bolsters high-speed printing with variable line width, arc path, and so on.



Max Capacity, Efficient Use of Space

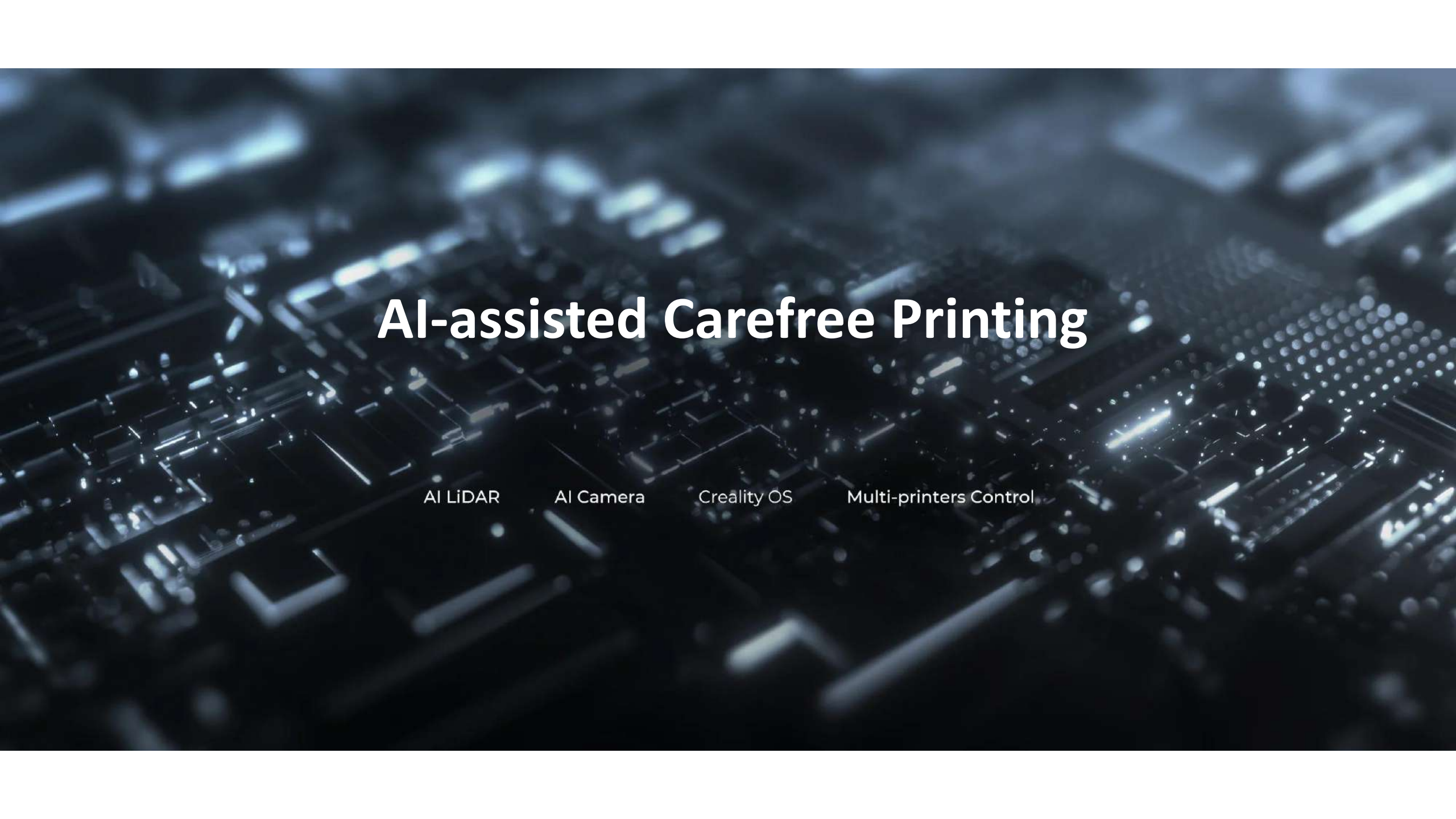
K1 Max boasts a 300x300x300mm large build volume, great for rapid prototyping or design verification.

It also offers a high build volume to printer size ratio of 25.5%.

K1 Max is the most size-efficient FDM 3D printer in its class.







AI-assisted Carefree Printing

AI LiDAR

AI Camera

Crealty OS

Multi-printers Control

AI LiDAR Takes Care of the First Layer

Still worry about the first layer? Just leave it all to the AI LiDAR of K1 Max. The 1 μm resolution LiDAR will scan the first layer on its own. It will pause printing and tell you immediately if something goes wrong.



AI Camera Keeps a Keen Watch

K1 Max uses an AI camera to watch over spaghetti failure, foreign objects, debris, etc. It will alert you when an error occurs. It also supports real-time monitoring and creates time-lapses for sharing.



AI detection prompt

A print quality problem has been detected and printing has been suspended.

Stop

Continue



Printing

Pause

Stop



File: CB-EXD01-009_4020...

Layer: 0 / 583

0%

Print Time: 0s

Time Left: 15h 24m 29s

AI detection prompt

Please clean the printing platform and printing has been paused.

Stop

Continue







Smart System, Unbridled Performance

K1 Max adopts the smart Creality OS. It features a straightforward UI, and syncs data and commands with PC, phone, Cloud, and add-on modules.

The snappy dual-core 1.2GHz CPU powers high-speed printing with ease.

The 8G ROM stores up to 400 model files and enables quick writing and reading.

creality OS



Intelligent Aid to Your Print Farm

Once K1 Max is connected via WiFi or RJ45 Ethernet port to the LAN or Internet, you can monitor and control the printing from a PC or phone with Creality Print software or Creality Cloud. Even better, when many K1 Max printers are online, they can be easily clustered or grouped for volume production.



Trustworthy Print Quality



Rigid Frame, Stable Quality

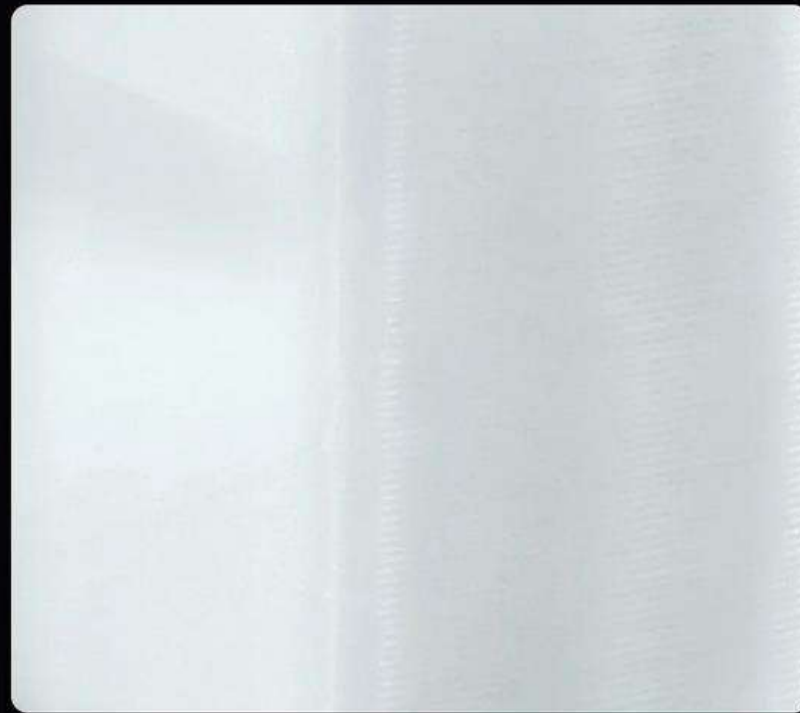
The unibody die-cast aluminum alloy frame of K1 Max is CNC machined to be precise and rigid. It enables steady printing at high speed. And the print quality is excellent the whole time.



Delicate Texture without Z-banding

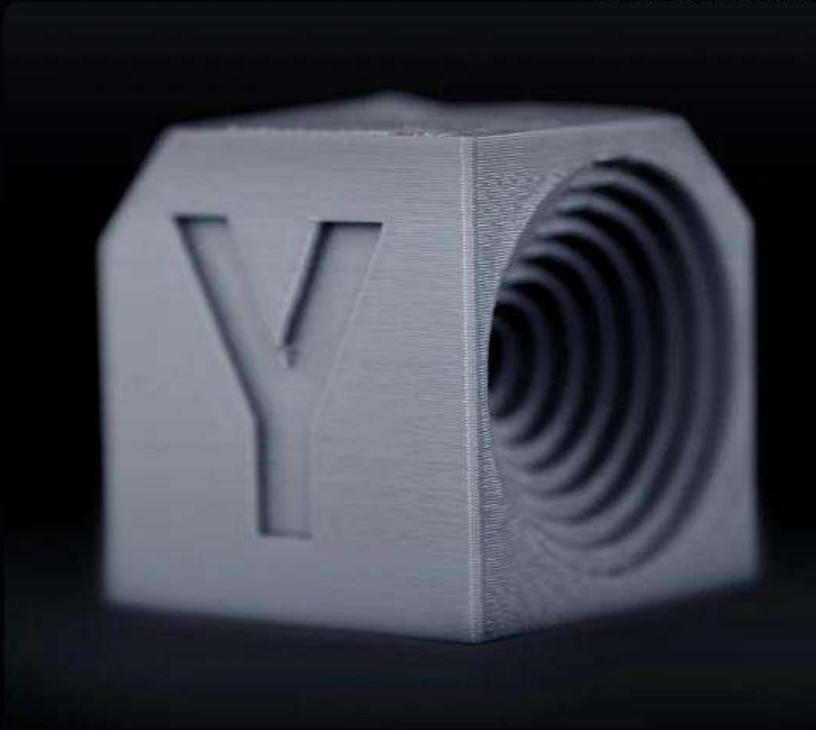
The upgraded Z-axis with more accurate positioning reduces Z-banding effectively.

The texture has never been so subtle.

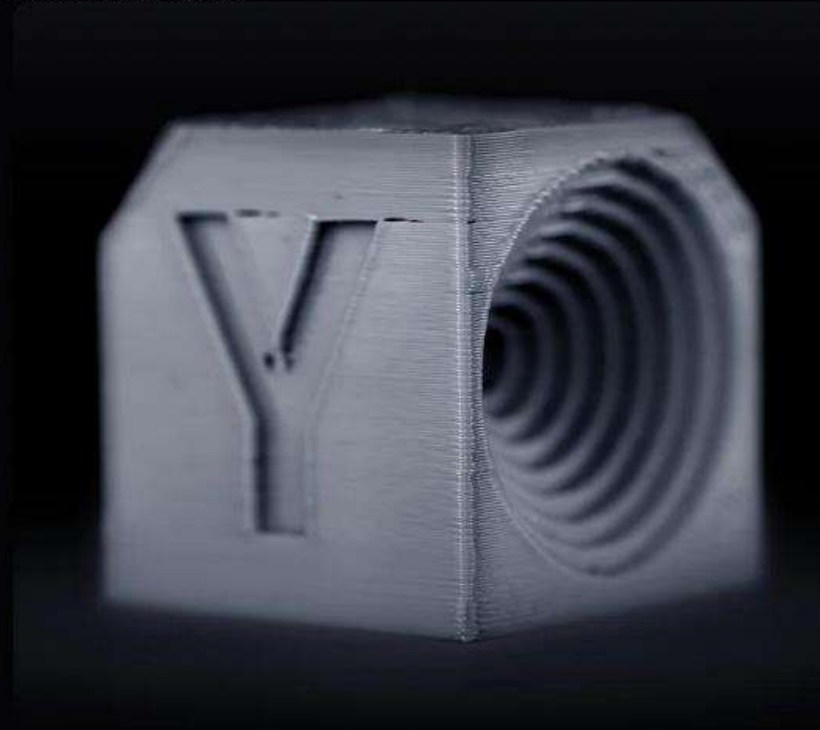


Flow Control with LiDAR Motion Advance

When you start to print, the AI LiDAR will test and recognize the best feeding flow by printing straight lines.
It reduces blobs and oozes effectively.



Motion Advance ON



Motion Advance OFF

Intuitive for Everyone

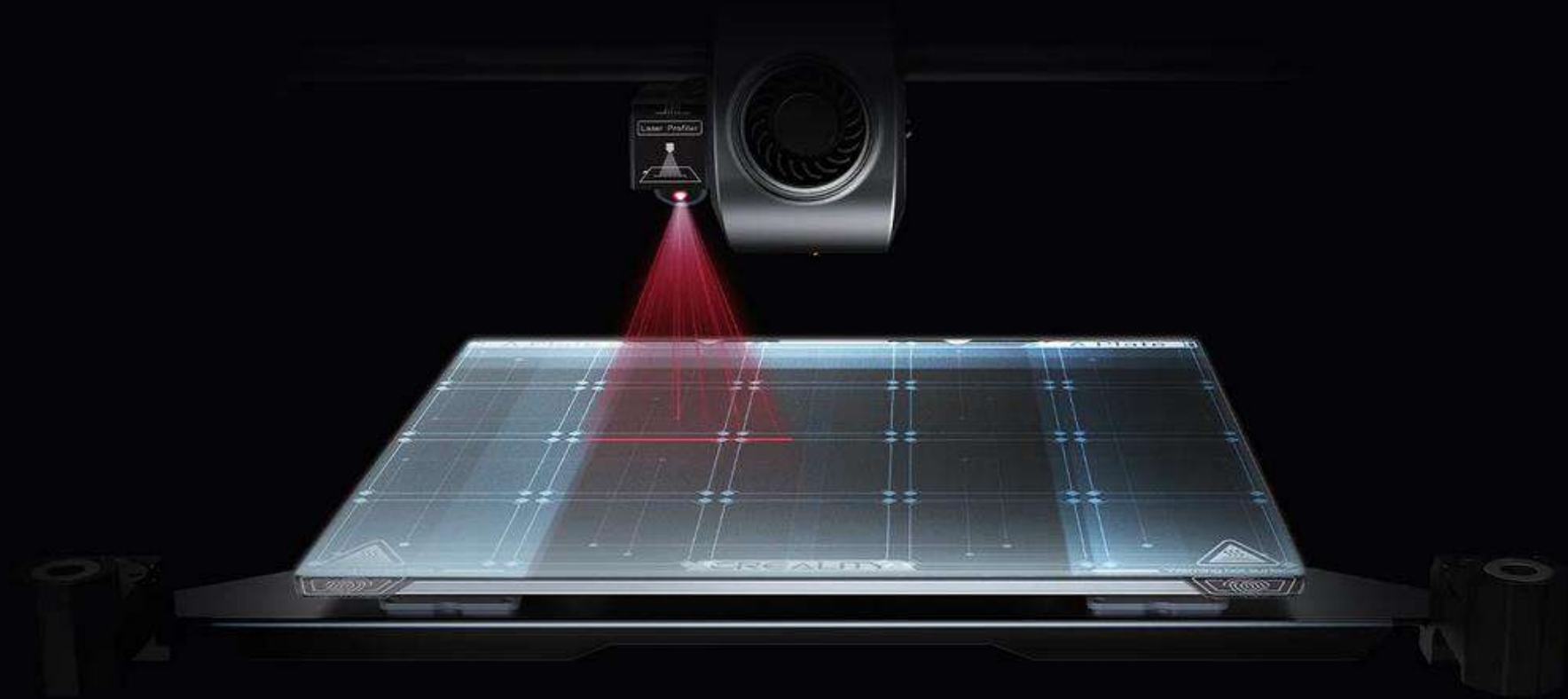


Dual Hands-free Auto Leveling

First, strain sensors in the heatbed generate an accurate leveling mesh for auto compensation.

Second, AI LiDAR scans the bed tilt at million points for more precise leveling.

Both ways are hands-free and do not require any attention.



Print Right out of the Box

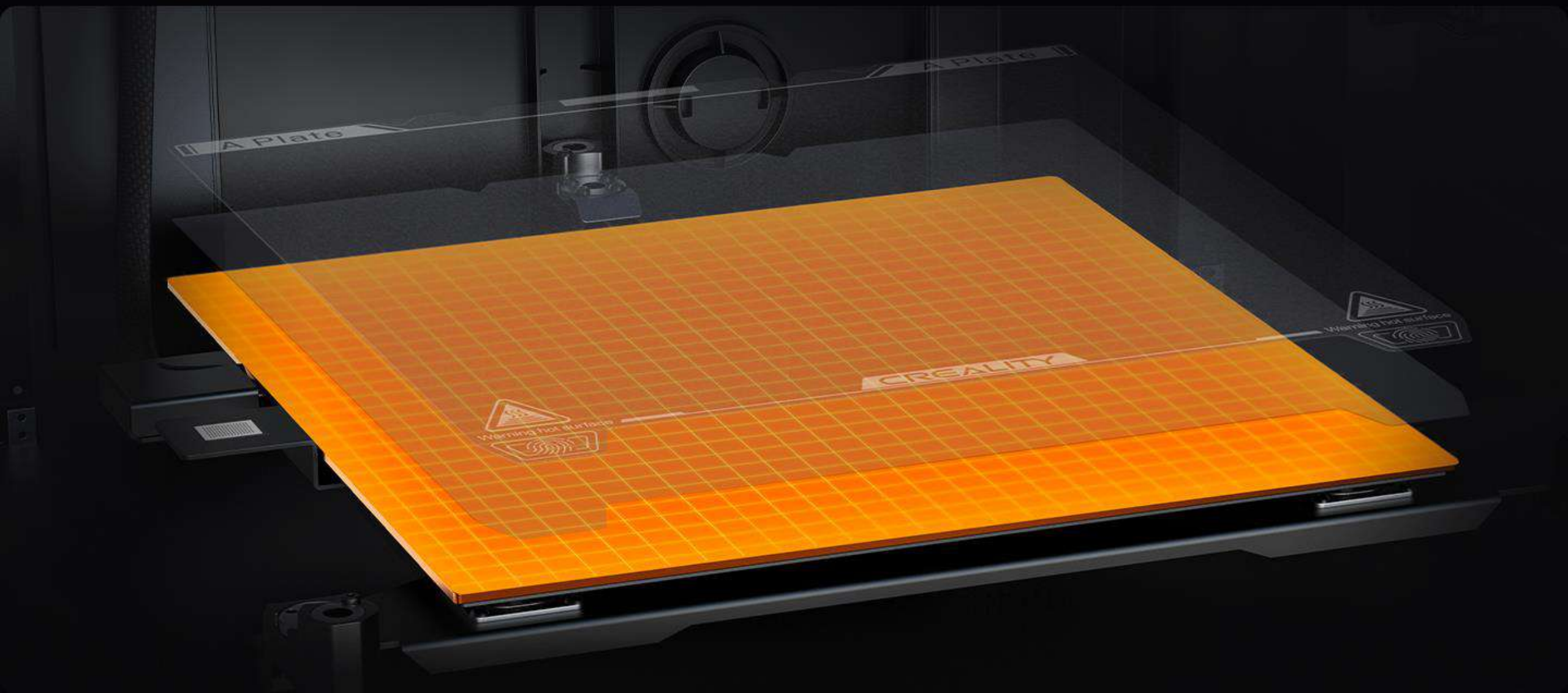
K1 Max is assembled and calibrated before shipment and built-in with a boot-up quick guide.
You can start printing the moment your K1 Max arrives.



Give a tap, and K1 Max will self-test the extruder, heatbed, camera, fan, leveling, G-sensor, etc. Any abnormality will prompt on the display. So, users can proceed confidently without hitch.



The aluminum alloy heatbed spreads heat uniformly and quickly. It reaches 60°C in only 90s and keeps the same heating speed under 220V and 110V.



Sticky and heat-resistant, it works well with a wide range of filaments.
The finely frosted surface makes the model bottom fine and smooth. Bendable for quick print removal.



Pragmatic & Stylish

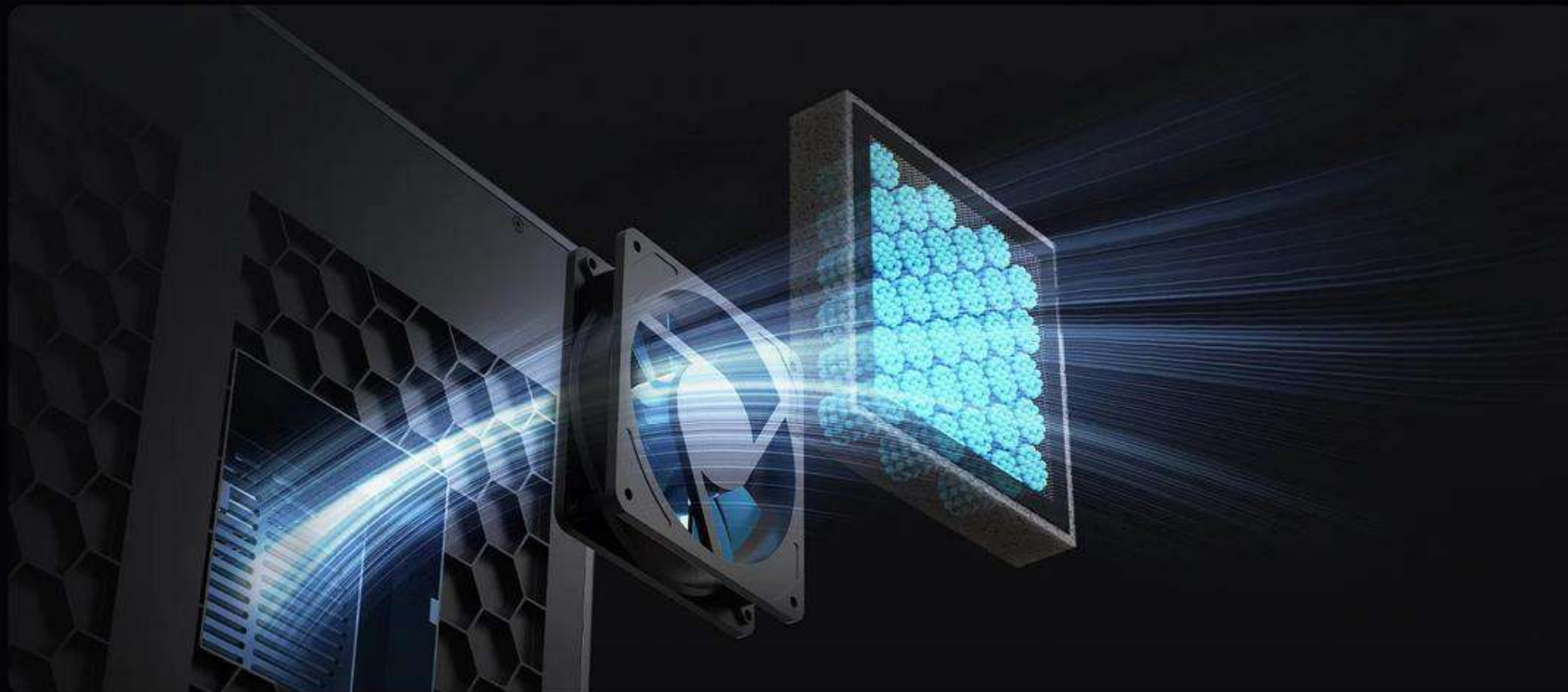


Styling of the Future



Effective Air Purifier

The built-in air filters will purify unhealthy compounds generated during printing, making printing much more pleasant.



Specifications

Printing Technology: FDM	File Transfer: USB drive, Ethernet, WiFi
Build Volume: 300*300*300mm	Display Screen: 4.3" color touch screen
Product Dimensions: 435*462*526mm	AI Camera: Yes
Package Dimensions: 508*508*608mm	AI LiDAR: Yes
Net Weight: 18kg	Power Loss Recovery: Yes
Gross Weight: 23kg	Filament Runout Sensor: Yes
Printing Speed: $\leq 600\text{mm/s}$	Air Purifier: Yes
Acceleration: $\leq 20000\text{mm/s}^2$	Input Shaping: Yes
Printing Accuracy: $100\pm 0.1\text{mm}$	Lighting kit: Yes
Layer Height: 0.1-0.35mm	Sleep Mode: Yes
Extruder: Dual-gear direct drive extruder	Rated Voltage: 100-240V ~, 50/60Hz
Filament Diameter: 1.75mm	Rated Power: 1000W
Nozzle Diameter: 0.4mm (swappable with 0.6/0.8mm nozzle)	Supported Filaments: ABS, PLA, PETG, PET, TPU, PA, ABS, ASA, PC, PLA-CF, PA-CF, PET-CF
Nozzle Temperature: $\leq 300^{\circ}\text{C}$	Printable File Format: G-Code
Heatbed Temperature: $\leq 120^{\circ}\text{C}$	Slicing Software: Creality Print; compatible with Cura, Simplify3D, PrusaSlicer
Build Surface: Flexible build plate	File Formats for Slicing: STL, OBJ, AMF
Leveling Mode: Dual hands-free auto leveling	UI Languages: Chinese, English, Spanish, German, French, Russian, Portuguese, Italian, Turkish, Japanese