QIDI TECH

New generation of all-round Plus4 launched

Specialized in FDM 3D printer manufacturing
Since 2014

Upgrades

QIDI Plus3
280*280*270mm

QIDI Plus4
305*305*280mm

01 Toolhead	Hot end temperature ≤350°C Hot end heating power 60W	Hot end temperature ≤370°C Hot end heating power 80W First application of ceramic throat	Support more high-temperature filaments
02 Chamber	First-gen active chamber heating Chamber heating power 300W	Second-gen active chamber heating Chamber heating power 400W	Print high-temperature filaments minimize warping
03 Drive System	Single motor drive Manual tilt leveling	Dual motor independent drive Automatic tilt leveling	Ensure more stable and precise Z-axis
04 Firmware	Klipper V.10	Klipper V.12 Customized	More stable system Easier to operate

Core Point: Toolhead

01

Performance Upgrade

- 80W Second-gen **Bimetal Hot End**
- **Maximum temperature up to 370°C**

(Perfect printing of PPS-CF and other specialty filaments)

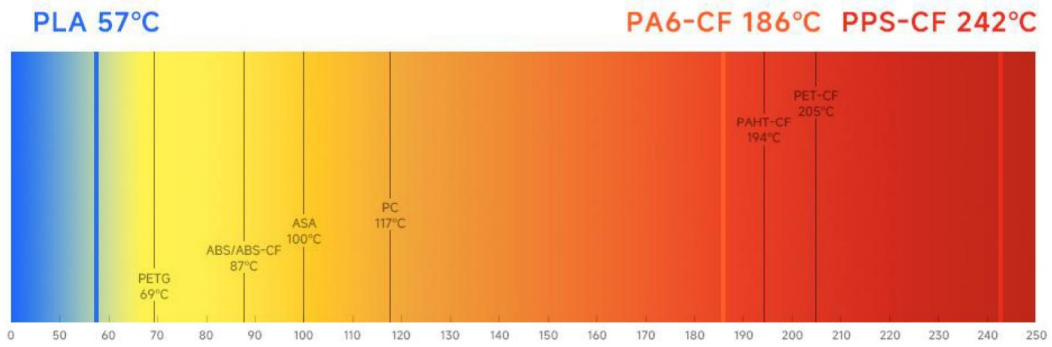
Core Point: Toolhead

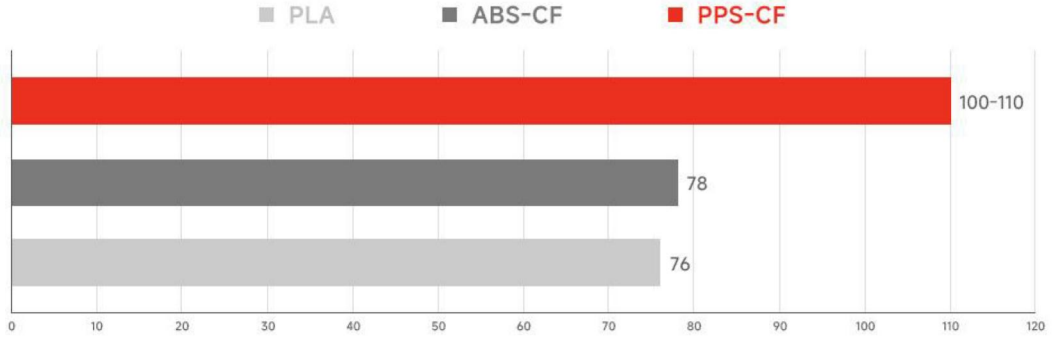
01

Unlock PPS-CF Perfect Printing

Filament: PPS-CF Temperature: 370°C
Hot bed: 100°C Chamber: 55°C

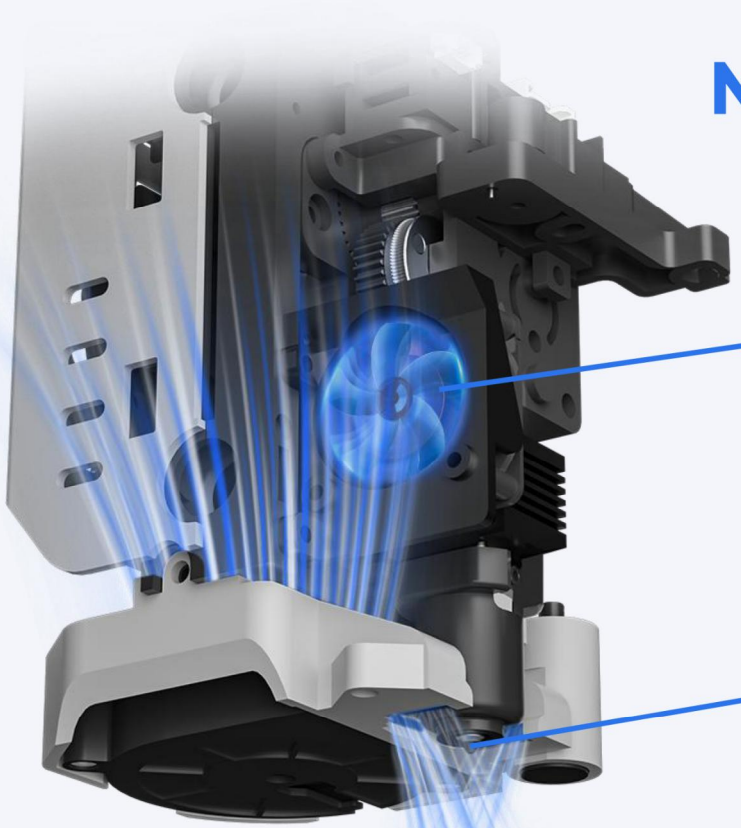
Ultra-high temperature resistance 242°C
Excellent rigidity





Core Point: Toolhead

01



New generation cooling fan system

10,000 RPM 3010 independent hot end cooling **fan**

(Rapid cooling, no clogging)

Upgraded efficient air duct **design**

(Multidirectional powerful wind for cooling)

Core Point: Toolhead

01

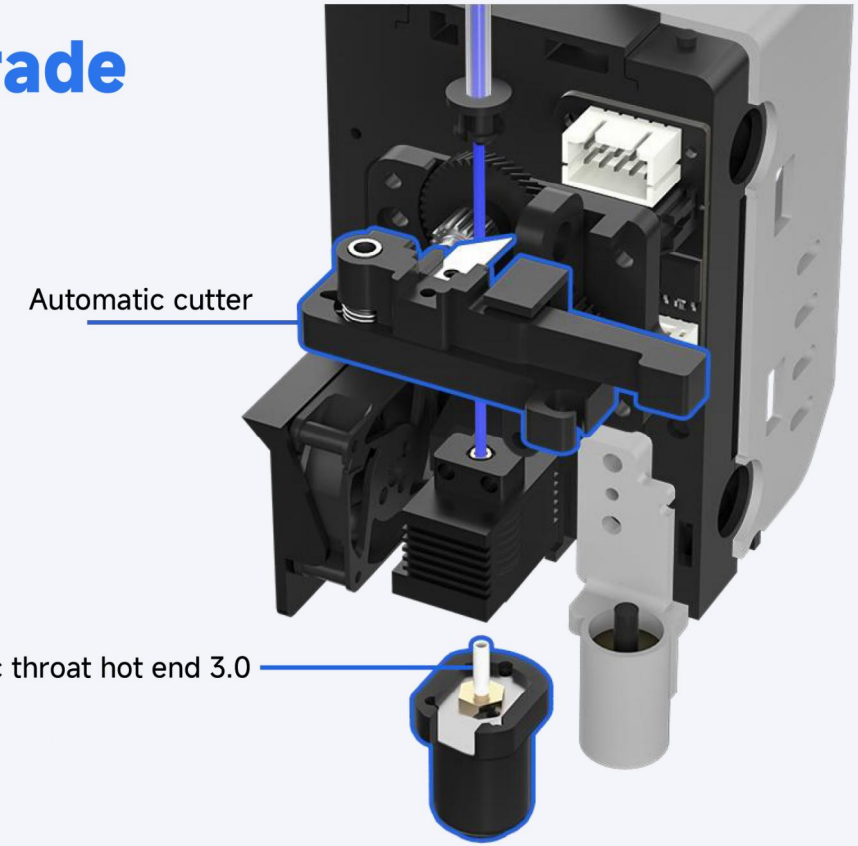
Smart Toolhead Integration Upgrade

New cutter function

Easier filament replacement

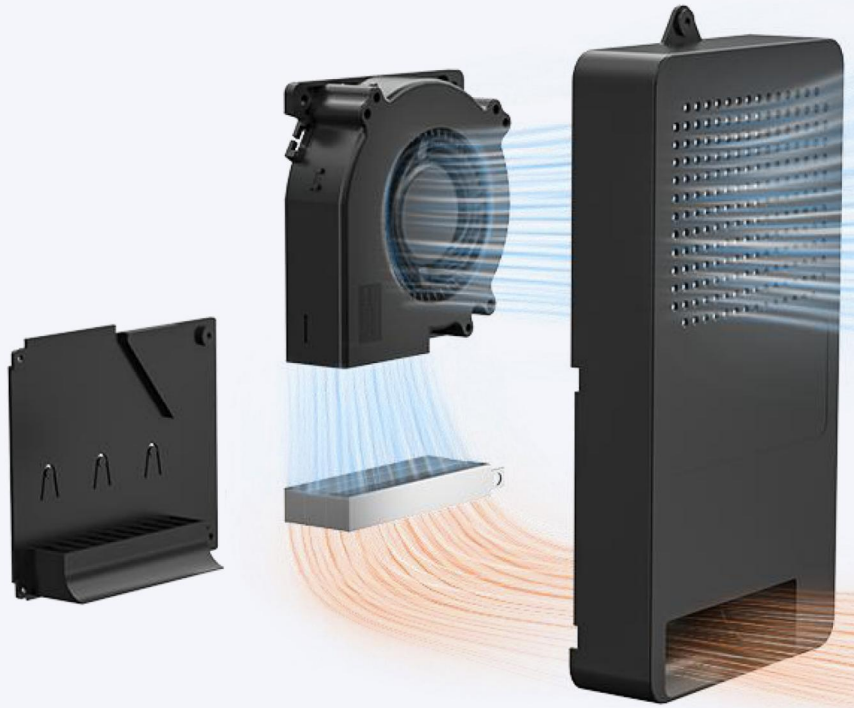
The first application of ceramic throat

Smoother extrusion and less clogging



Core Point: Chamber

02



Chamber Heating Module

Reconfiguration and Upgrade

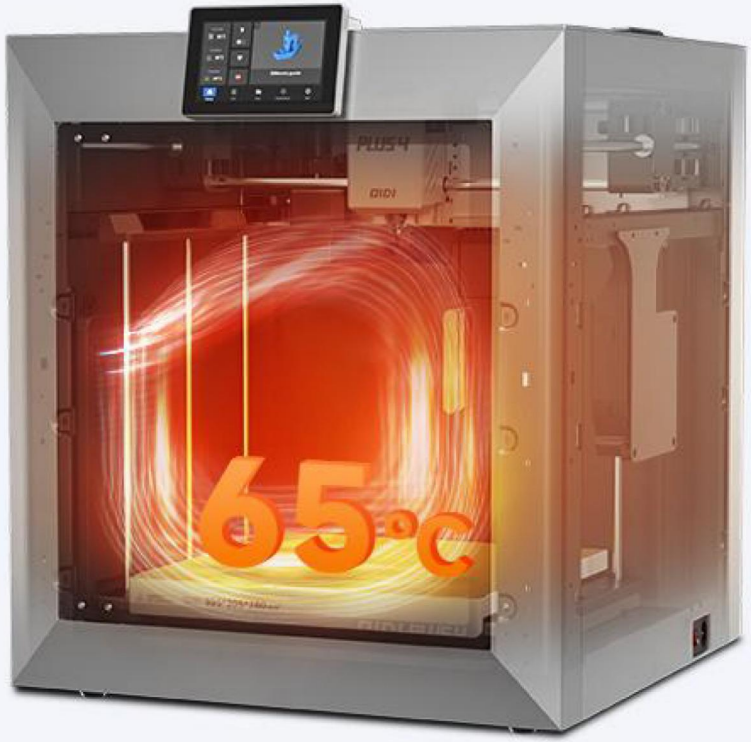
- 400W Ultra-high heating efficiency
- 5min to 60°C Chamber Temp
- Air circulation design
- Perfectly balanced chamber temperature with powerful turbo fan

Core Point: Chamber

02

Effectively reduce warping

-For ABS, PC and other high-temperature filaments

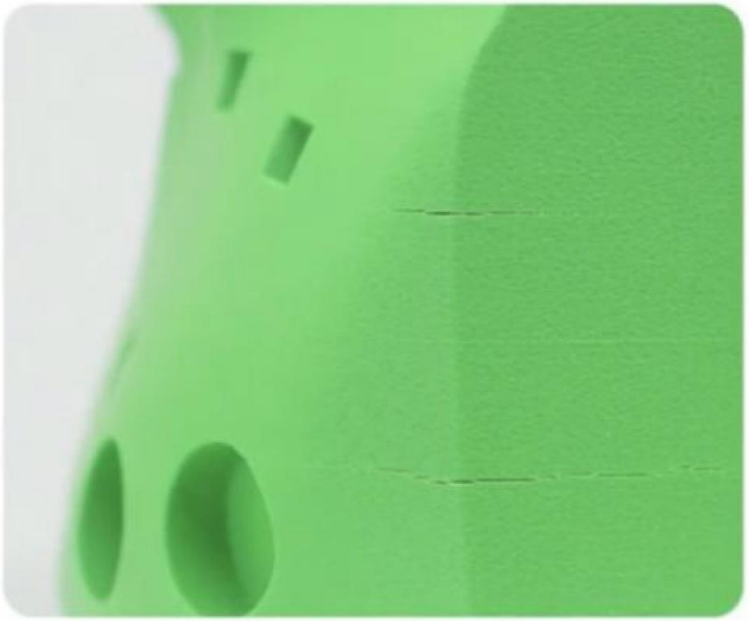


Core Point: Chamber

02

Increase interlayer adhesion

-For ABS, PC, ABS-GF and other high-temperature filaments



Layer seperation

Perfect layer adhesion

Core Point: Drive System

03

Larger Build Volume

280*280*270

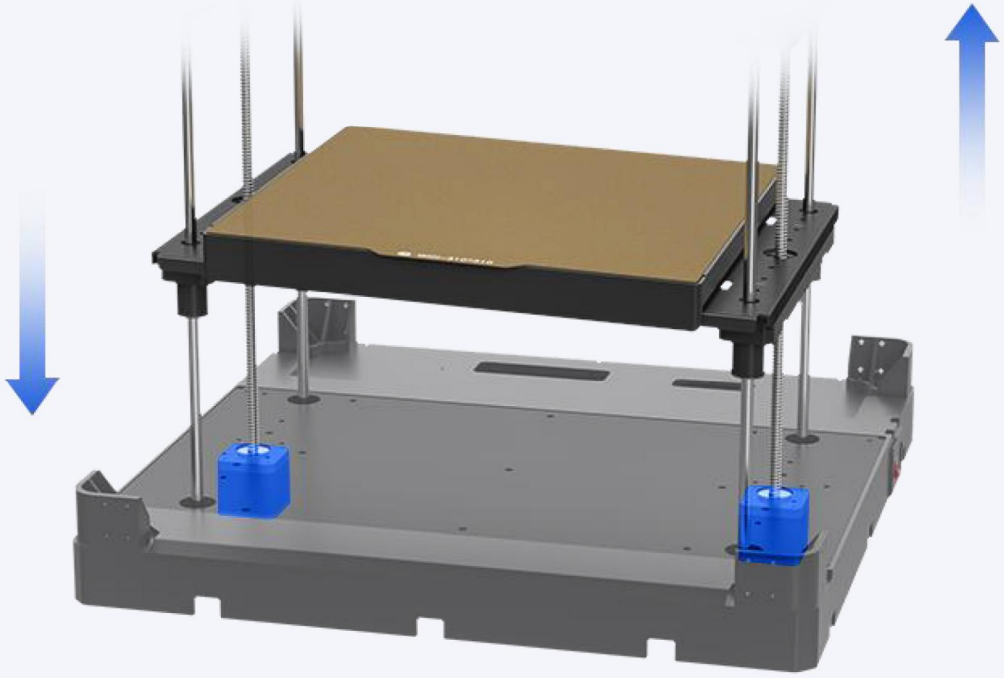
305*305*280

Core Point: Drive System

03

Automatic tilt leveling

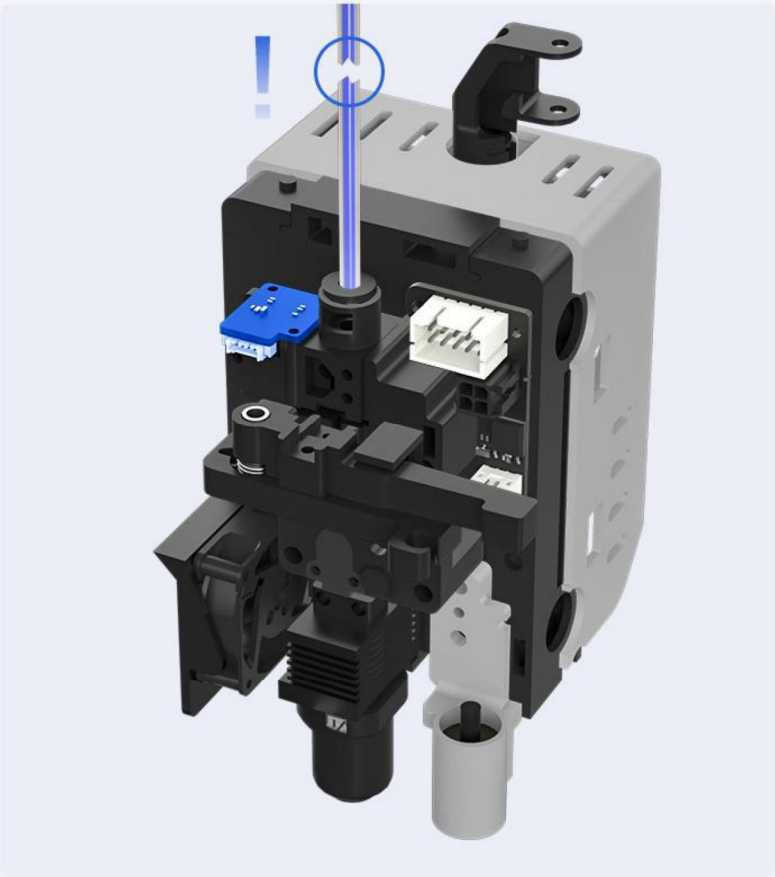
- Extremely stable experience
- Higher precision with independent dual motor drive Z-axis



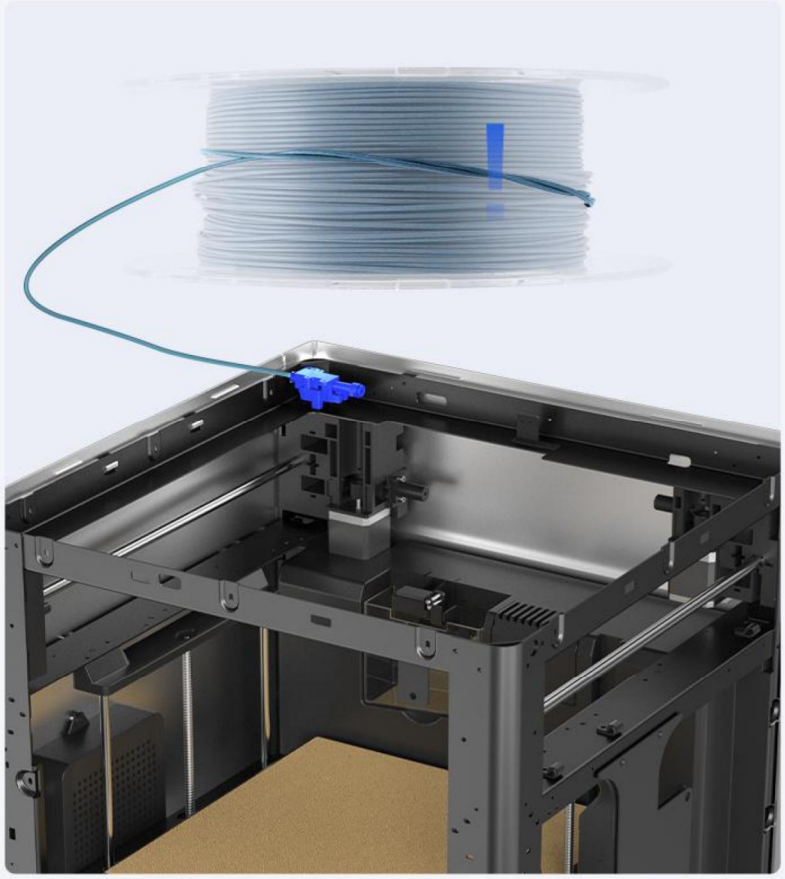
03

Core Point： Drive System

Filament Runout Detection



Filament Tangle Detection



Core upgrade: operating system

04

Smarter control

Upgraded to 5-inch HD screen
New UI interface

Core upgrade: operating system

04

Open source compatibility upgrade, Support for more extensions

Other Key Points

CoreXY Structure

TMC2240 silent drive reducing noise

Reduce motion inertia, increase motion speed

Max speed of tool head: **600mm/s**

Max acceleration: **20000mm/s2**

Full Metal Frame

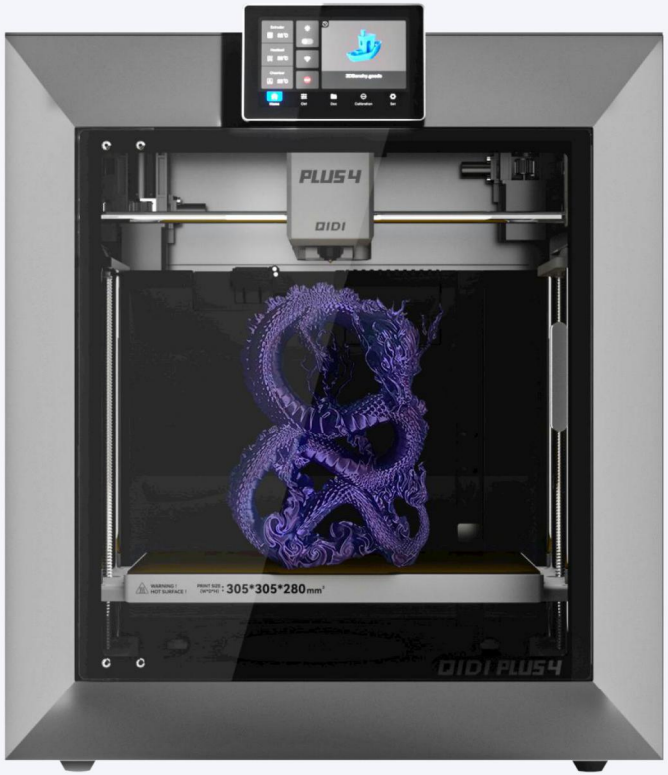
Stable, anti-deformation

High temperature resistant motor

Motherboard Configuration

Equipped with **32G-EMMC** and 1GDDR3 storage

150M 2.4G wireless card



HD Camera

Monitor printing status anytime and anywhere

Time-lapse photography to help record

Automatic dual sensor leveling

Proximity sensor for measuring net beds

Piezoelectric sensor for

automatic measuring Z-offset

Firmware/Software Open Source

Klipper open source, fully open fluid control interface

QIDI Slicer to adapt to high-speed printing and

group control upgrade

Mobile APP online, remote and worry-free

Specifications

Dimensions	505*487*550 mm
Build Volume	305*305*280 mm
Printing Accuracy	±0.1mm/100mm
Max Speed of Tool Head	600mm/s
Nozzle Diameter	0.4mm
Nozzle	Bimetal Nozzle
Extruder Temp	≤ 370°C
Extruder	Direct Drive Extruder
Chamber Temperature Control	65°C Independent Chamber Heating
Recommended Filament	PLA、ABS、ASA、PETG、TPU、PET、PC、PA、TPU、PA、 PC、Carbon/ Glass Fiber Reinforced Polymeretc.

Hot Bed Temp	≤ 120°C
Printing Acceleration	20000mm/ s^2
Extruder Transmission Ratio	8.9:1
Firmware	Klipper v.12
Main Processor	Cortex-A53，64-bit Processor
Connection Options	WiFi/ USB Flash Drive/ Ethernet Cable
Operating System	Windows/ MacOS/ Linux
Slicer	QIDI Slicer/Simplify 3D/ORCA/PRUSA
Voltage	100-240 VAC, 50/60Hz
Rated Power	450W+400W(Chamber Heating)