NEPTUNE 4 PRO

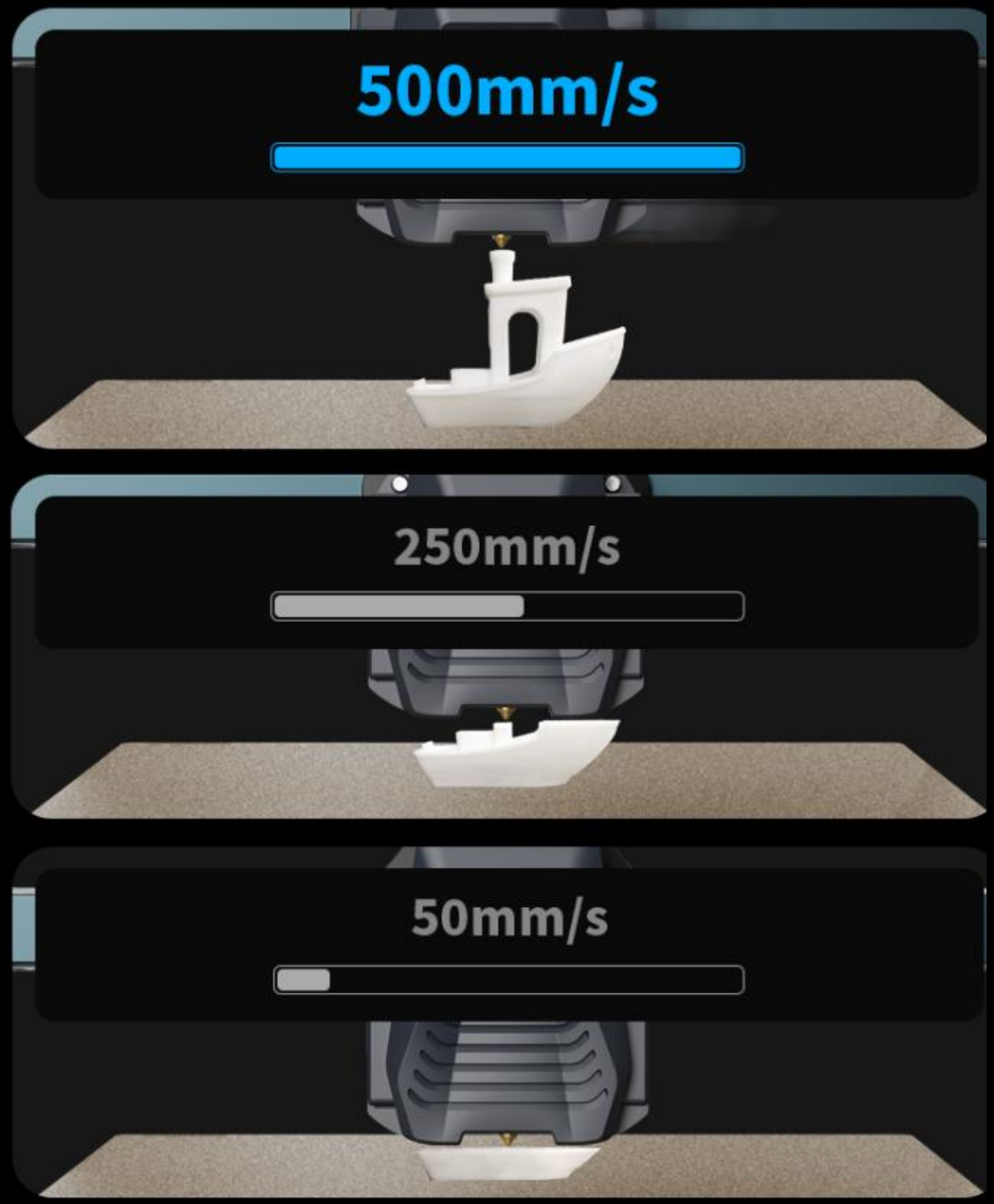
3D Printer

Born for FAST Printing

Max 500mm/s

64-bit processor computing power & excellent motion control algorithm

Accurate calculation of step time to achieve higher motion accuracy



• Klipper High-Speed Silent Mainboard

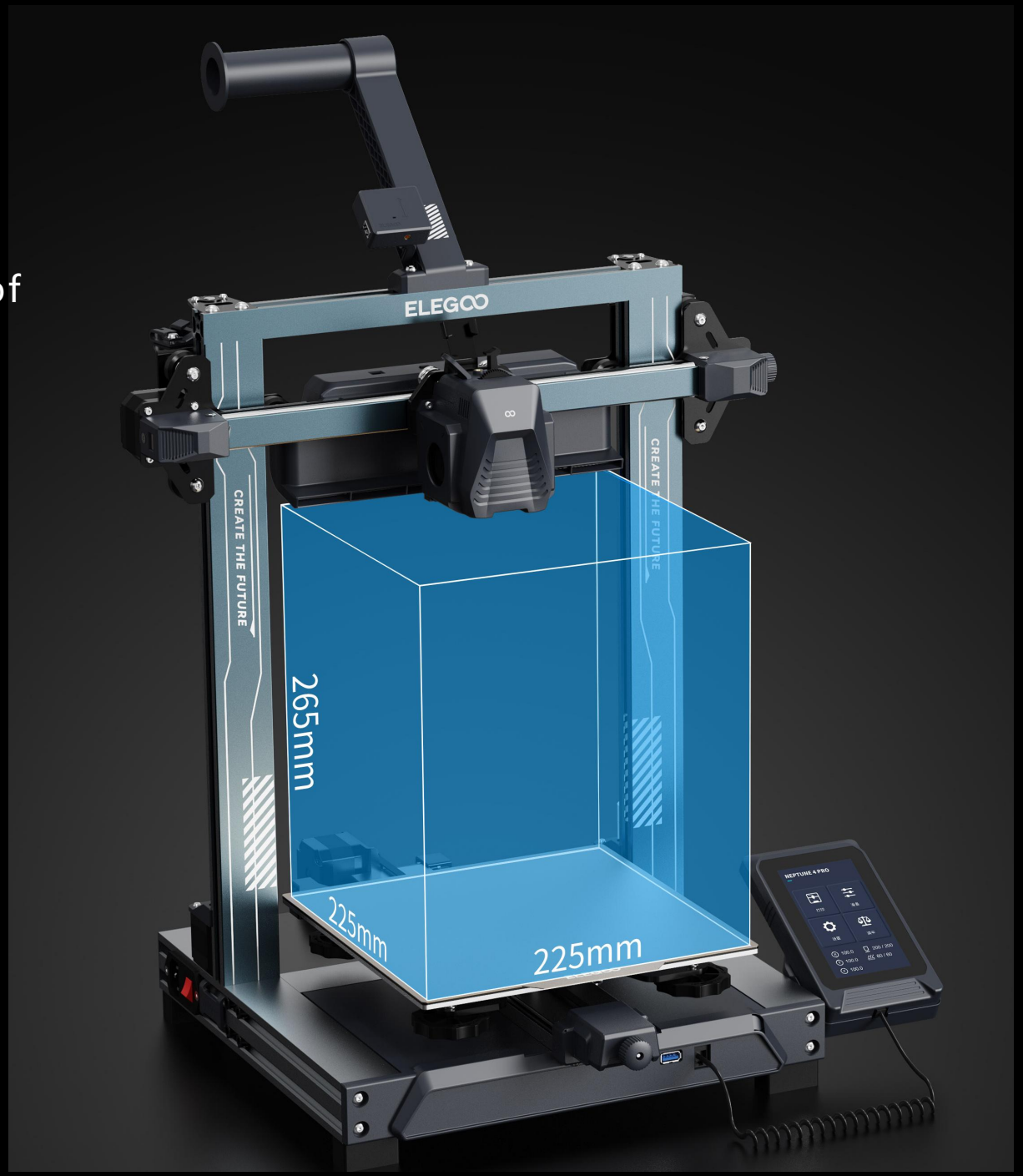
Effectively lower printing noise, realize low-decibel running, creating a more comfortable printing space.

Equipped with a 64-bit 1.5G quad-core high-performance processor, provide sufficient computing power for printing;

8G storage memory, support 400+ model storage, convenient and fast storage, bringing a better printing experience.

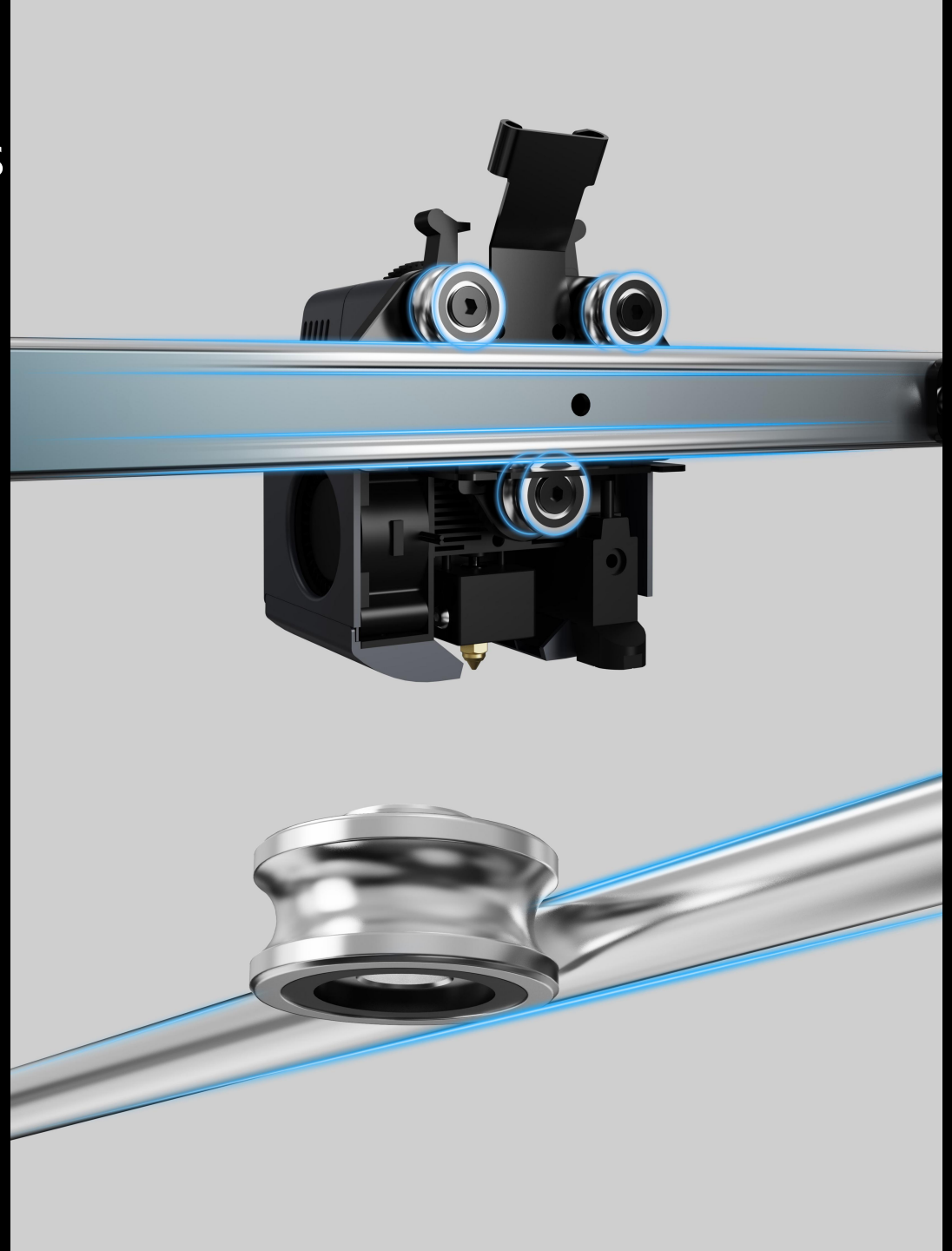
Print Volume: 225*225*265mm

Popular size in the market, meets the need of a large majority of users



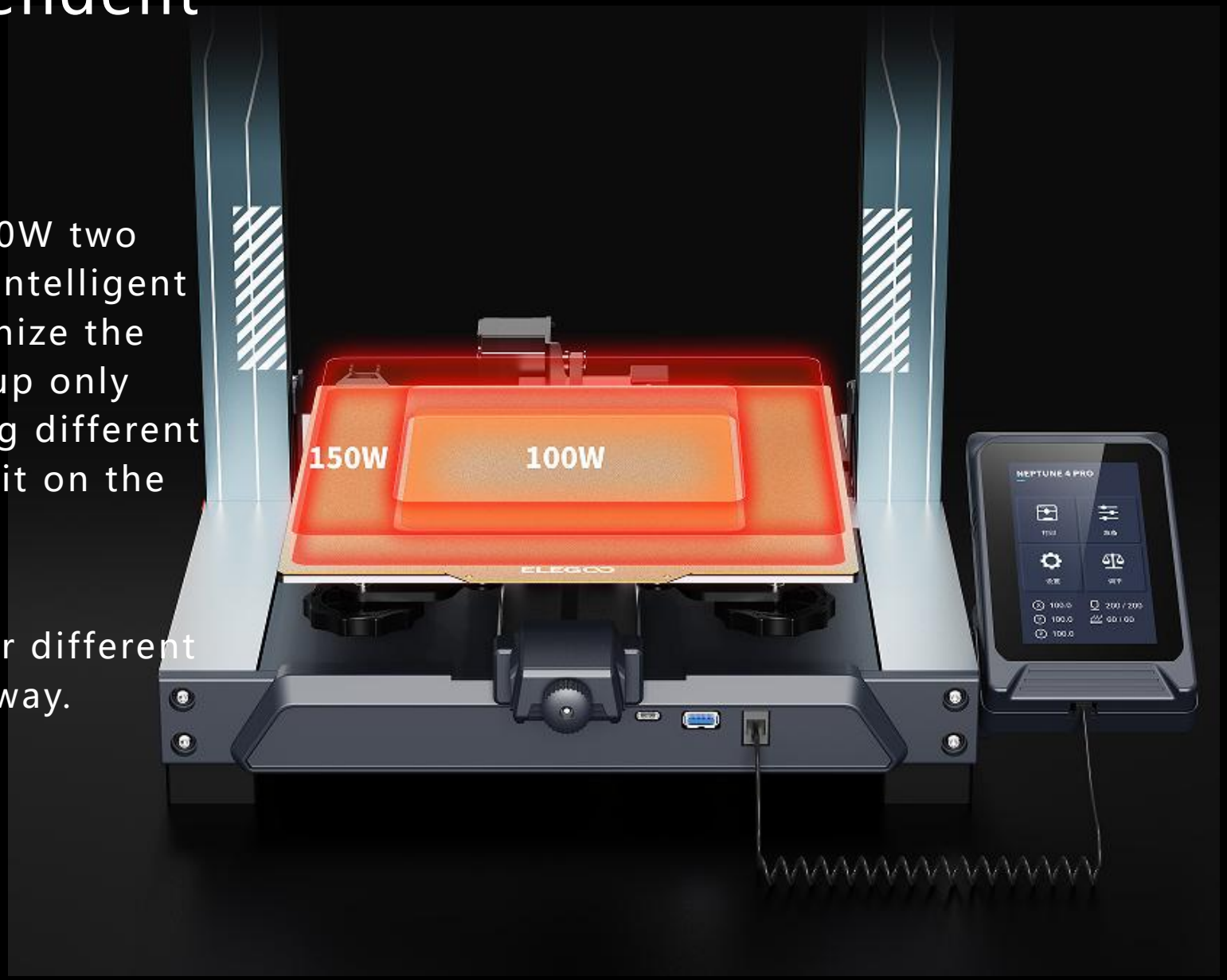
• All Metal Double-Axis Guide Rails

- The X & Y axes adopt all-metal dual-axis guide rails with U-shaped steel wheels
- Less resistance, more precisive motion
- Pretty durable and require less maintenance



• Two Intelligent Independent Heating Areas

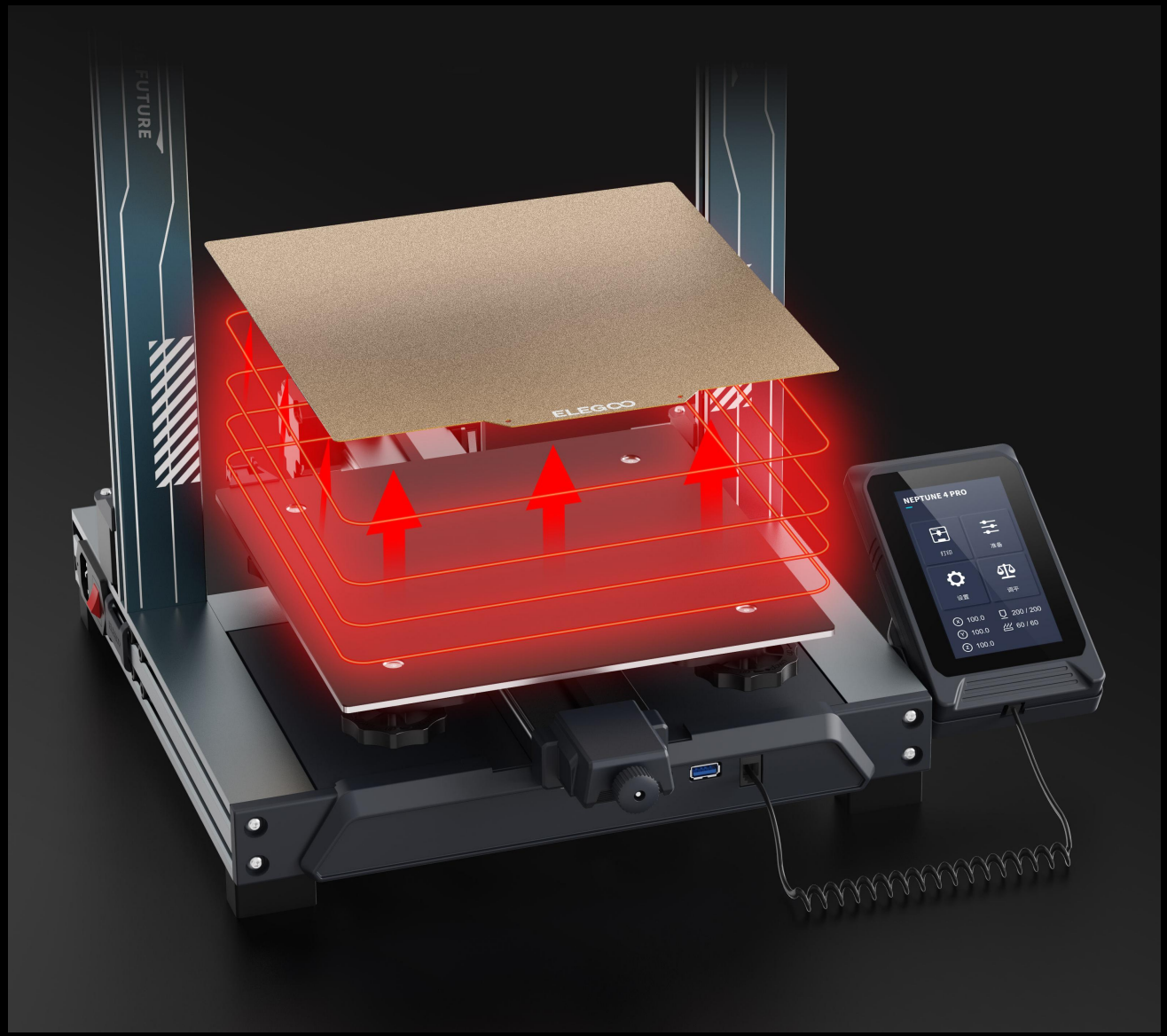
- The hotbed is parted into 100 & 150W two heating areas. You can turn on the intelligent mode on the slicer to have it recognize the model size automatically and heat up only one or both two areas when printing different sizes of models, or you can control it on the screen by yourself.
- This is to effectively reduce power consumption, to heat up the bed for different sizes of models in a more efficient way.



- PEI Magnectic Platform+High Temp Hotbed

No need for a spatula. The model will be automatically off the platform after the bed cools down. Better user experience.

The 250W hotbed can quickly heat up to 110°C, meeting the temperature requirements of many kinds of filaments.

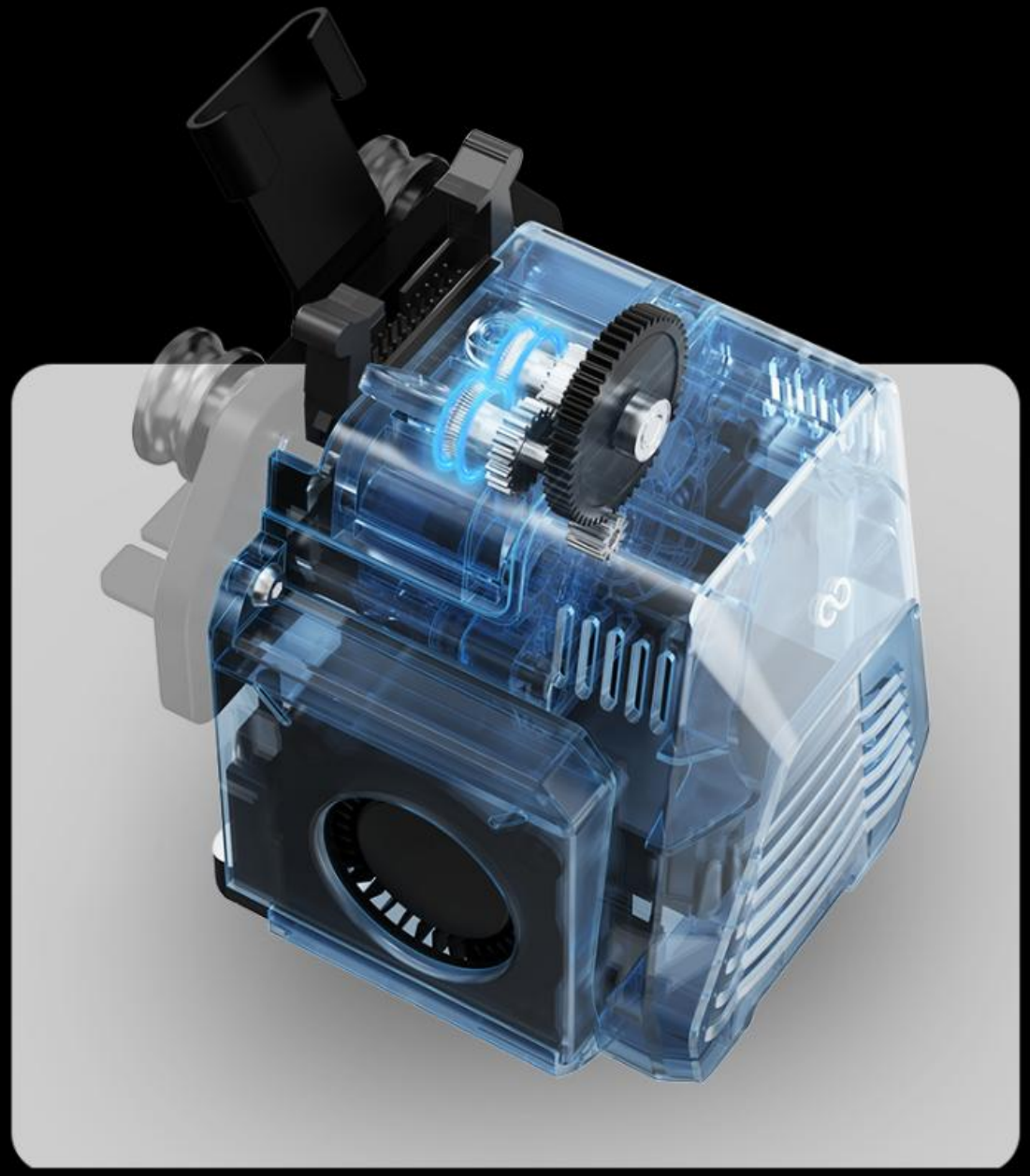


- Direct Drive Dual-Gear Extruder

New upgraded self-developed direct drive dual gear extruder, 5.2 times the extrusion ratio, greater extrusion force, the printing accuracy is higher;

Supports PLA, ABS, TPU, Nylon and other filaments;

Much lighter, only 75% of the weight of Neptune 3 Pro.



300°C High Temp Hotend

Copper-titanium all-metal high-temperature throat pipe + unique air duct design, effectively improve the heat dissipation of the throat and reduce the risk of blogging;

The hot end of the nozzle is extended, the filaments can be fully melted and extruded more evenly during high-speed printing;

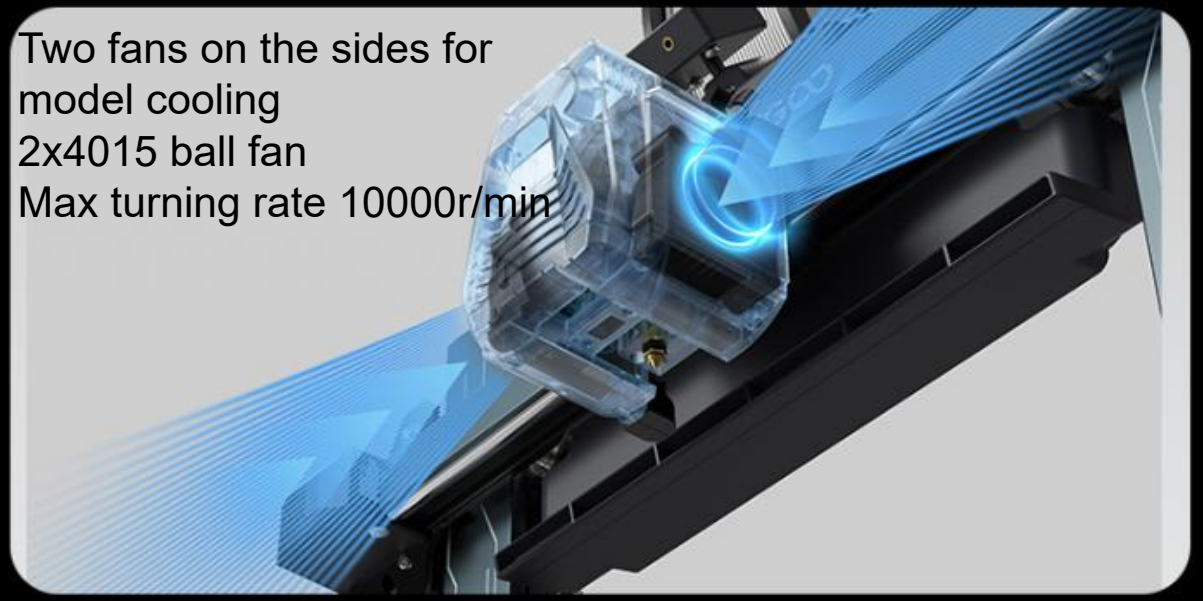
Max 300°C, supports printing more kinds of filaments like nylon.

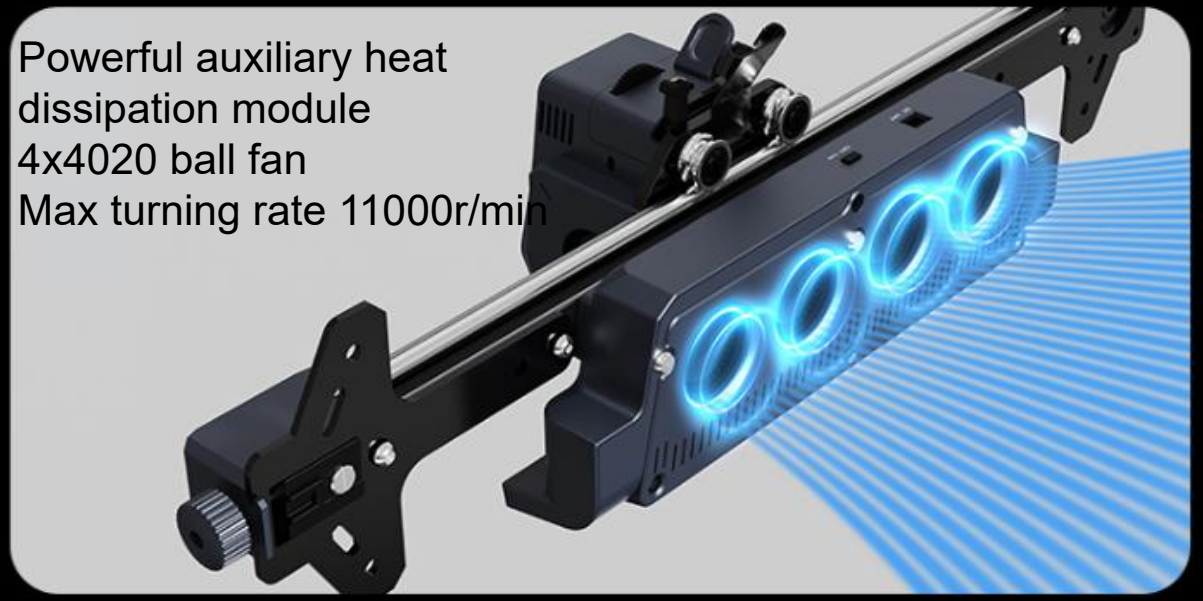
Powerful Cooling System

The heat dissipation module + smart fan control make the heat dissipation more comprehensive during printing;

The powerful auxiliary heat dissipation module is equipped with 4x4020 powerful ball fans to dissipate heat rapidly during fast printing;

The smart fan control will stop all fan work after the print is finished, to save energy, lower noise, and prolong the life span of the fans.

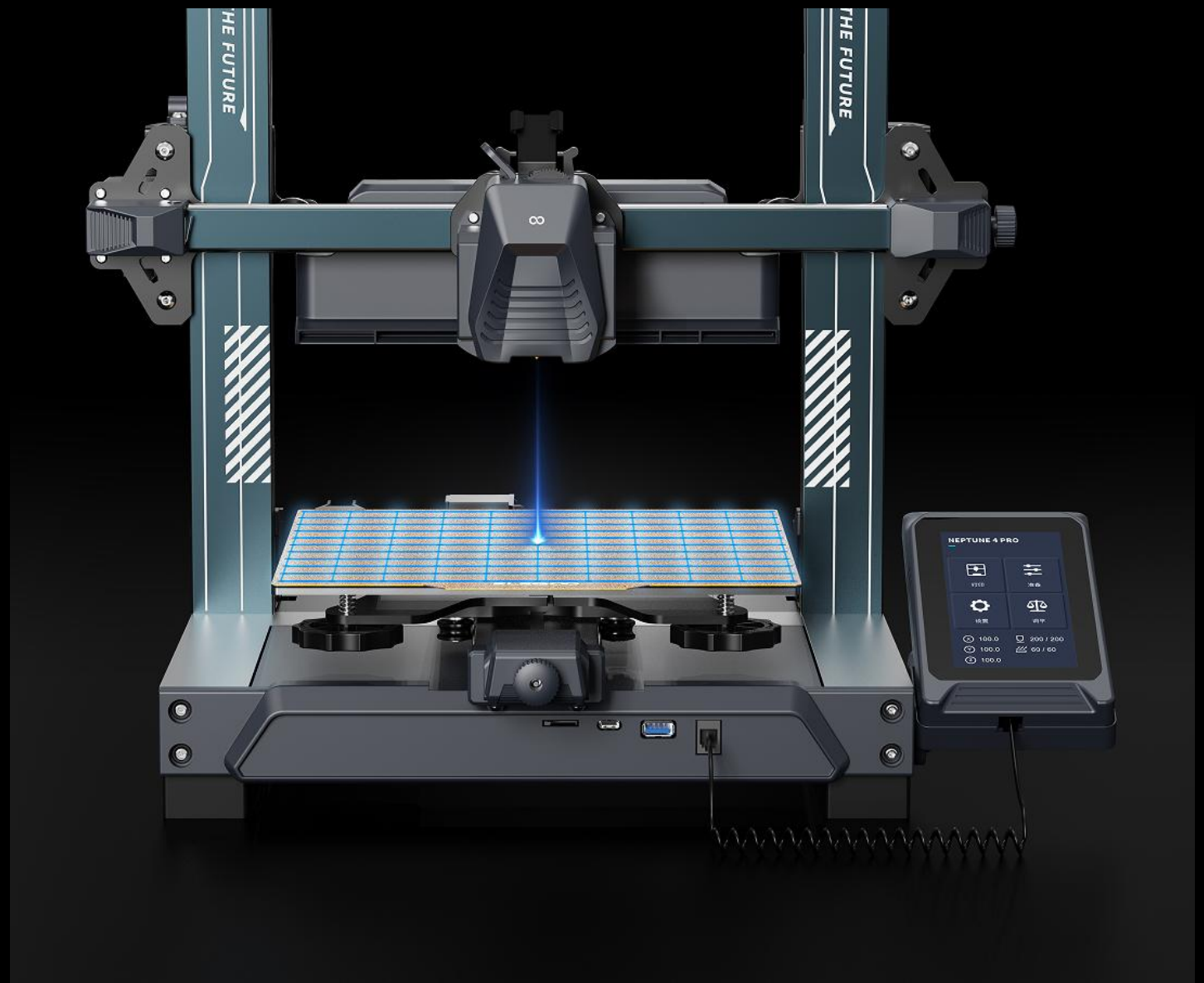




One-click Auto Leveling

Manual + 2.0 Auto leveling

A non-contact high-precision sensor will automatically collect data of 121 points (11×11) on the platform, improving the printing success rate.



- Filament Detection Sensor
- Smart Resume Printing

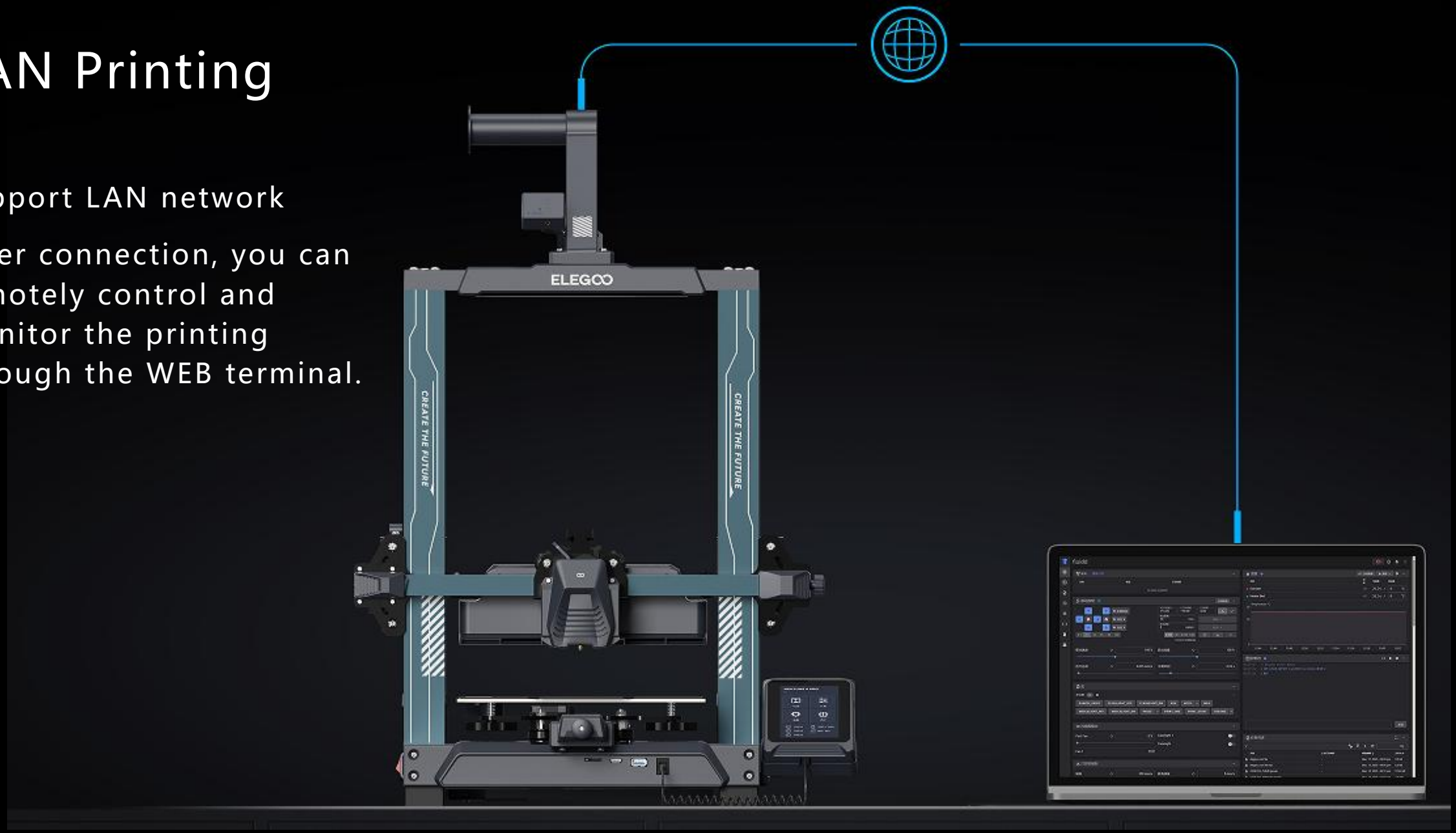
- Breakage/shortage of filaments will trigger an alarm automatically and the printing will be suspended, avoiding filament waste and printing failure.
- If an accidental power off happened, the printing can continue after power is on, reducing printing failure.

• Magnetic 4.3-inch Capacitive Screen

- Can be operated by hand or fixed on the base, more convenient and free to use
- Support multiple languages: Simplified Chinese, English, Spanish, French, Italian, Russian, German, and Japanese.

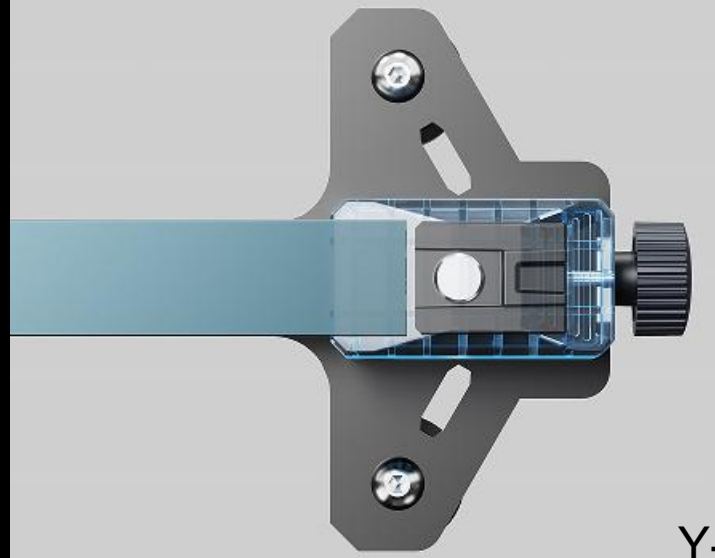
• LAN Printing

- Support LAN network
- After connection, you can remotely control and monitor the printing through the WEB terminal.



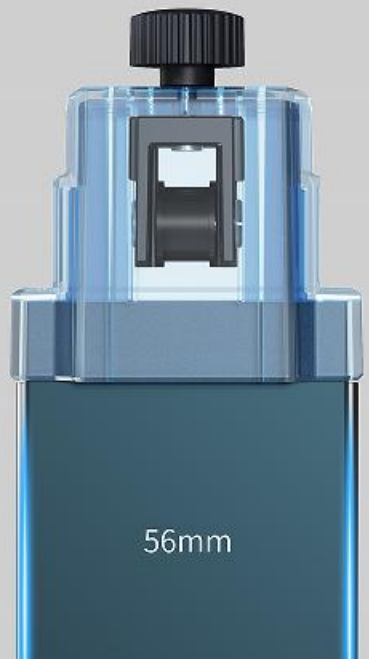
X/Y-Axis Belt Tensioner

The tightness of the belt can be adjusted by tightening the nut, easy to adjust tension after the belt is loose, improving the printing accuracy; At the same time, the Y-axis profile is widened, making the motion more stable.



X-axis tensioner

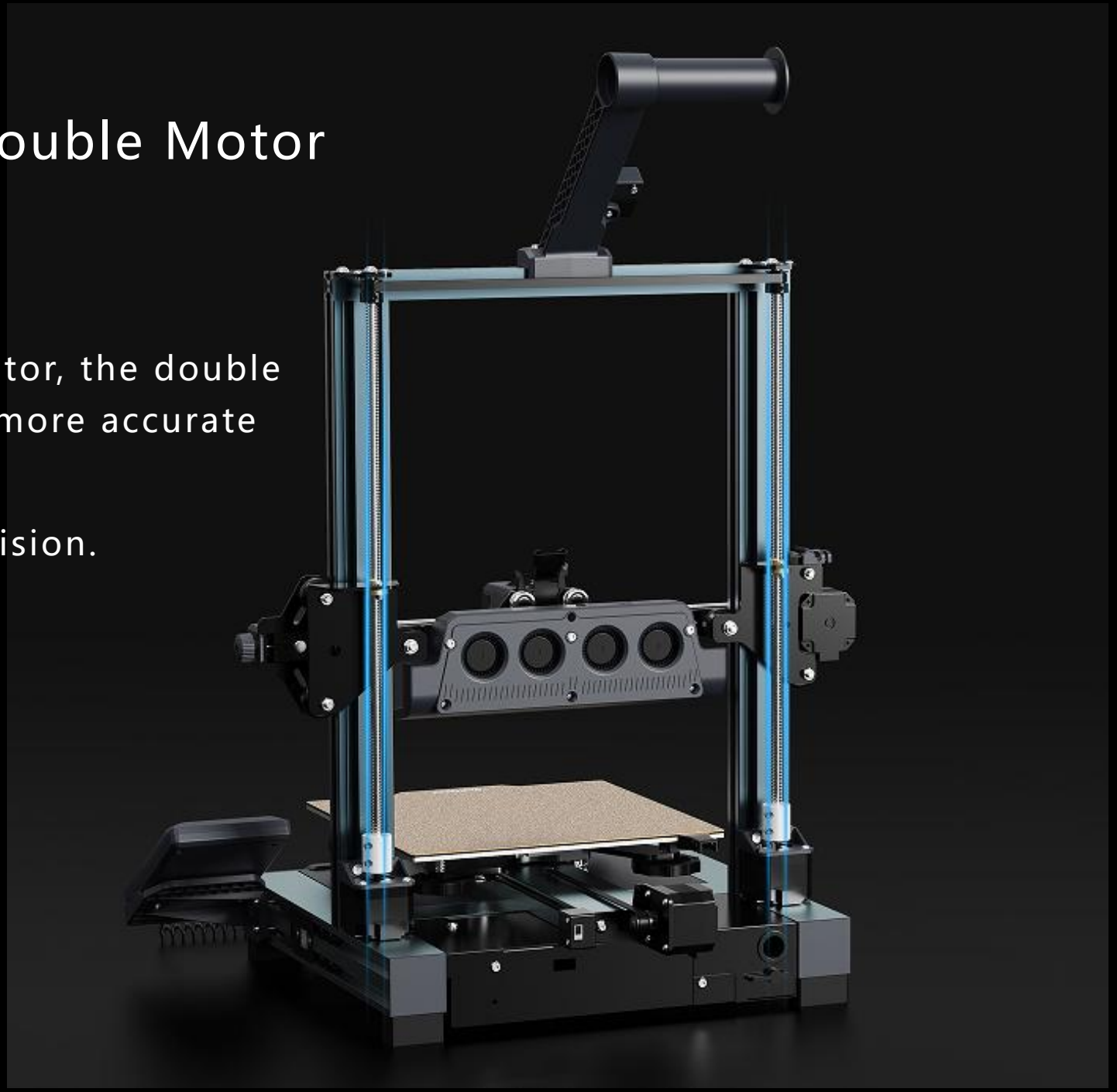
Y-axis tensioner



Widened

• Z-Axis Double Screw + Double Motor

- Compared with the single-screw motor, the double screw runs more smoothly and has more accurate leveling.
- Better print quality and higher precision.



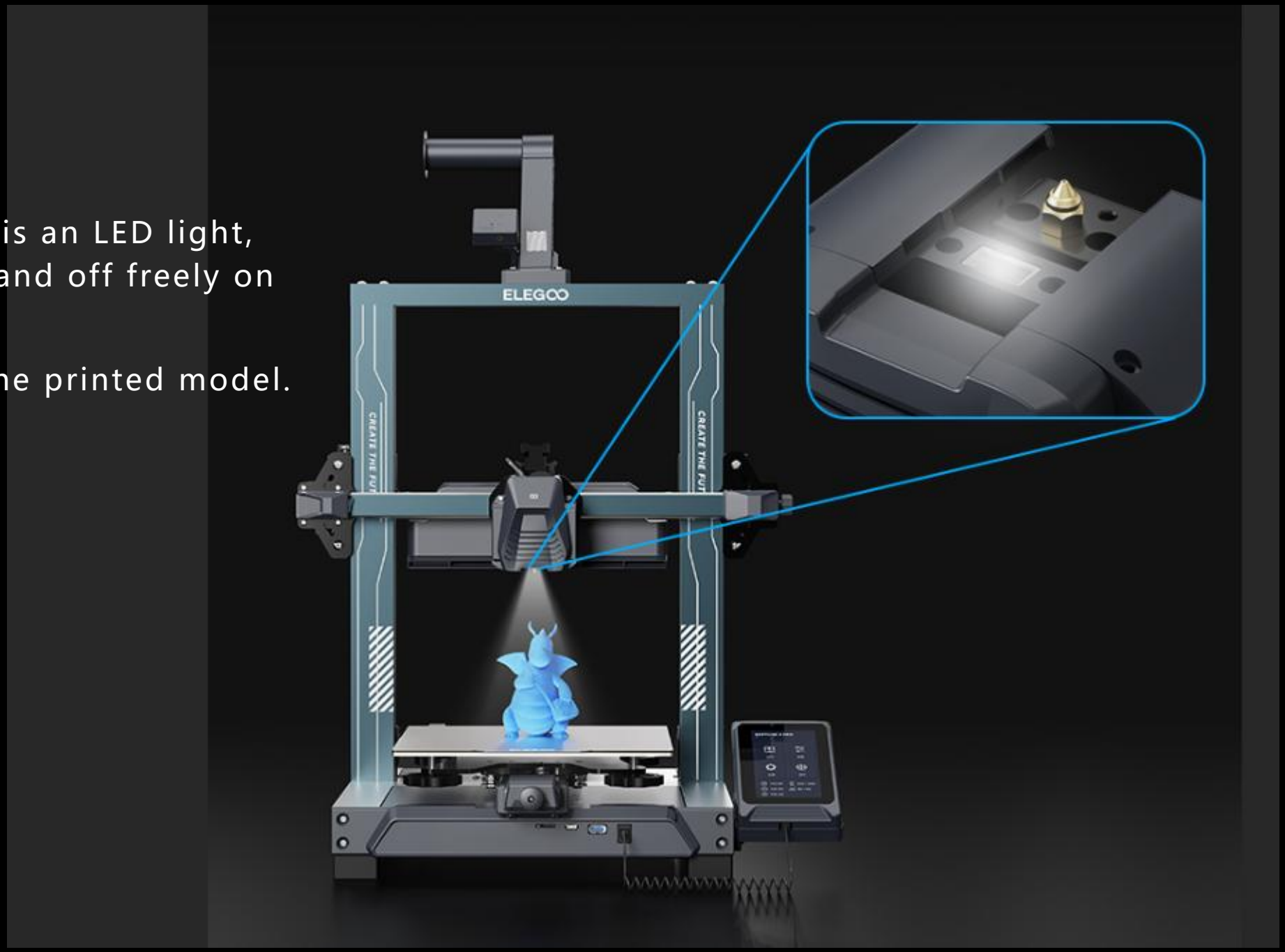
• Integrated Design

- Unique profile design, gantry structure, the whole machine is more portable and good-looking
- Quick assembly and maintenance, easy to start printing.

• LED Light

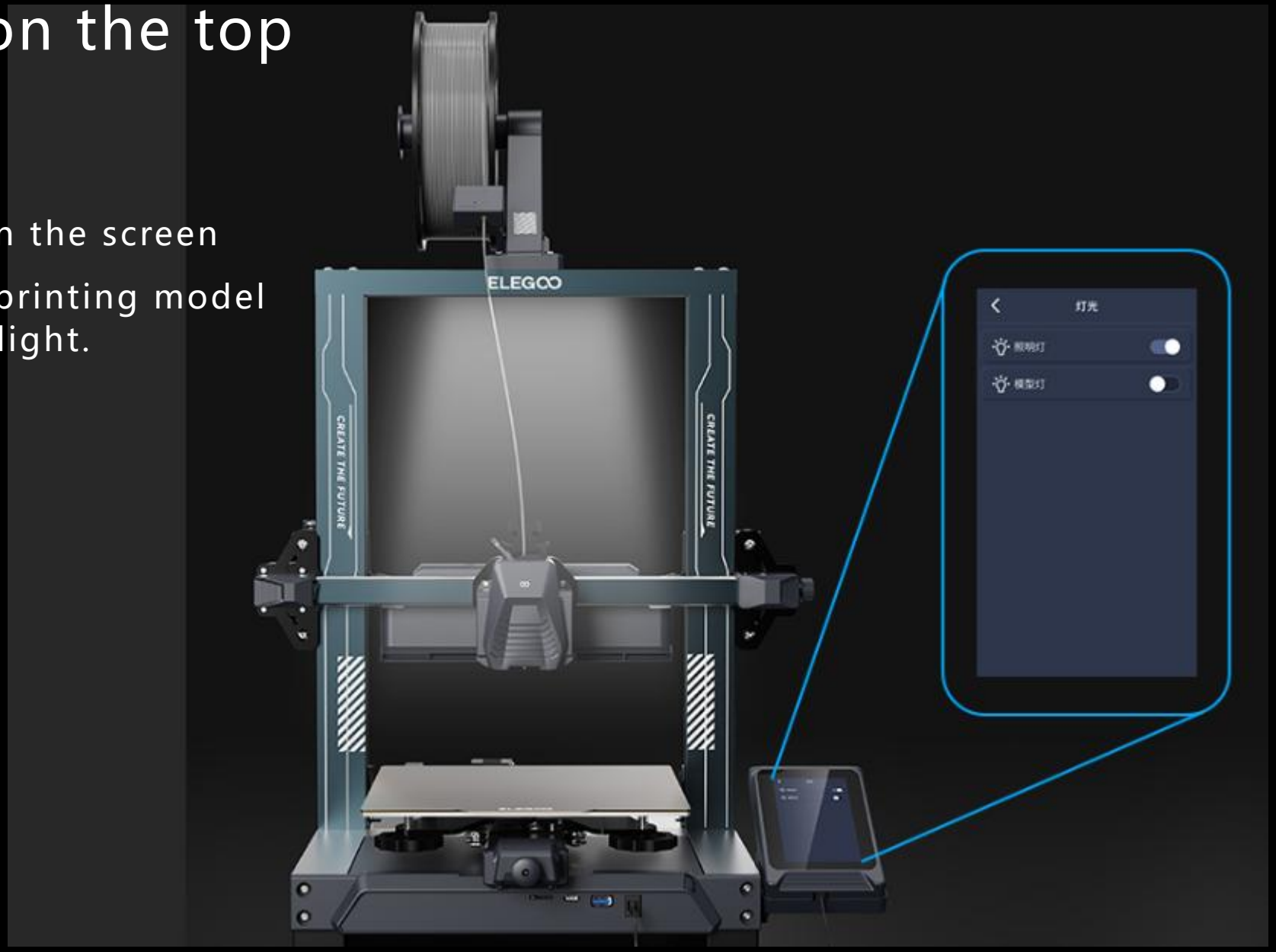
Beside the nozzle, there is an LED light, which can be turned on and off freely on the screen.

Convenient to observe the printed model.



• LED Light Panel on the top

- Ultra-bright LED light
- Can be turned on and off on the screen
- Convenient to observe the printing model when there is no sufficient light.



- Parameters

Technology：FDM

Display：Color 4.3inch capacitive touch screen

Platform：235x235mm

Package：625x490x235mm

G.W.：11.6kg

Nozzle Diameter：0.4mm

Extrusion Reduction Ratio：5.2

Filament Diameter：1.75mm

Leveling：Auto+Manual Leveling

Print Speed：30~500mm/s(recommended 250mm/s)

Nozzle Max Temp：300℃

Connectivity：WLAN、USB

Slicer：Cura

File Format：Gcode

Mainboard：ARM 64-bit quad-core high-speed silent mainboard

Print volume：225x225x265mm³

Printer Dimensions：475x445x515mm

N.W.：8.9kg

Printing Accuracy：±0.1mm

Nozzle Qty：1

Extruder：Dual-Gear Direct Drive Extruder

Layer Thickness：0.1~0.4mm(recommended 0.2mm)

Auto Leveling Detect Points：121 (11*11)

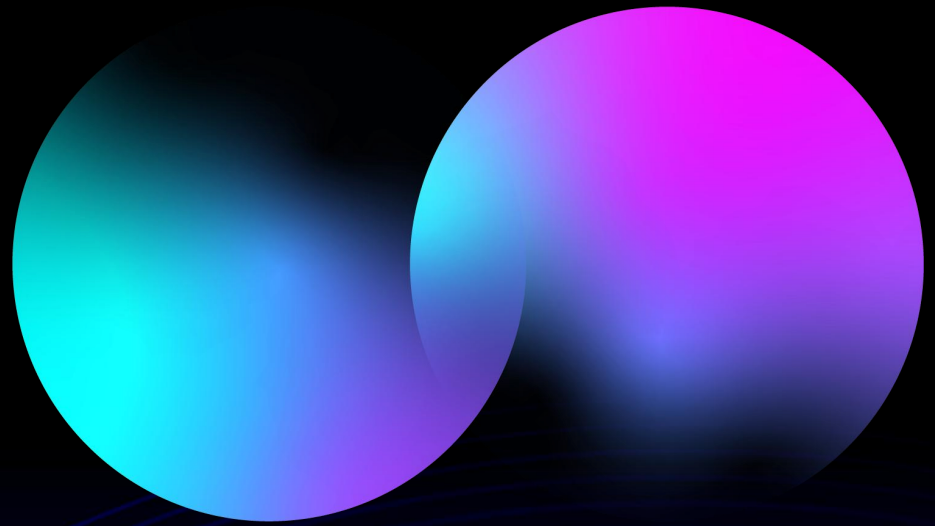
Ambient Temp：5°C-40°C

Hotbed Max Temp：110℃

Filaments：PLA/ABS/TPU/Nylon

File Format：STL、OBJ

Firmware：Klipper

ELEGOO

THANKS