

Kobra S1 Max – FAQ

Machine-related questions:

1. What are the machine dimensions of Kobra S1 Max and ACE 2 Pro? What is the print volume?

The dimensions of Kobra S1 Max are: 502.7 mm × 483 mm × 584 mm

The dimensions of ACE 2 Pro are: 368 mm × 291.5 mm × 236.5 mm

The print volume of Kobra S1 Max is 350 × 350 × 350 mm

2. What is the machine weight of Kobra S1 Max and ACE 2 Pro?

Kobra S1 Max: ~25.7 kg; ACE 2 Pro: ~3.7 kg

3. What are the packing weight and packing dimensions?

Packing weight:

Kobra S1 Max Combo: 35 kg; Kobra S1 Max: 31 kg; ACE 2 Pro: 4.8 kg

Packing dimensions:

Kobra S1 Max Combo: 583 × 560 × 693 mm³;

Kobra S1 Max: 583 × 560 × 693 mm³;

ACE 2 Pro: 445 × 345 × 320 mm³

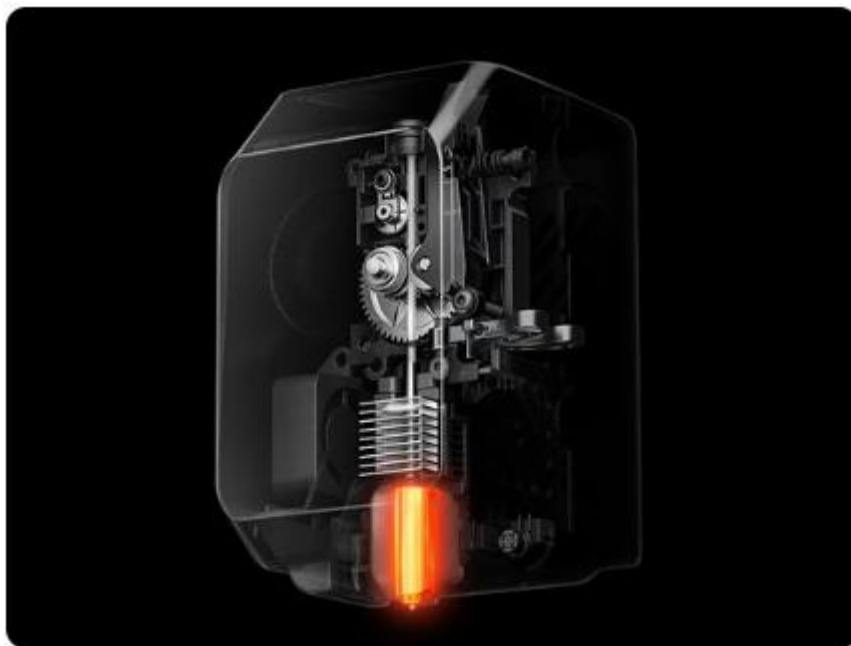
4. What are the maximum print speed and acceleration of Kobra S1 Max?

Maximum print speed: 600 mm/s

Maximum acceleration: 20,000 mm/s²

5. What material is the hotend nozzle made of?

The standard nozzle is hardened steel. The product comes pre-installed with a 0.4 mm hardened steel nozzle, and a 0.6 mm hardened steel nozzle is included in the package. It also supports optional 0.25 mm brass nozzles and 0.8 mm hardened steel nozzles.

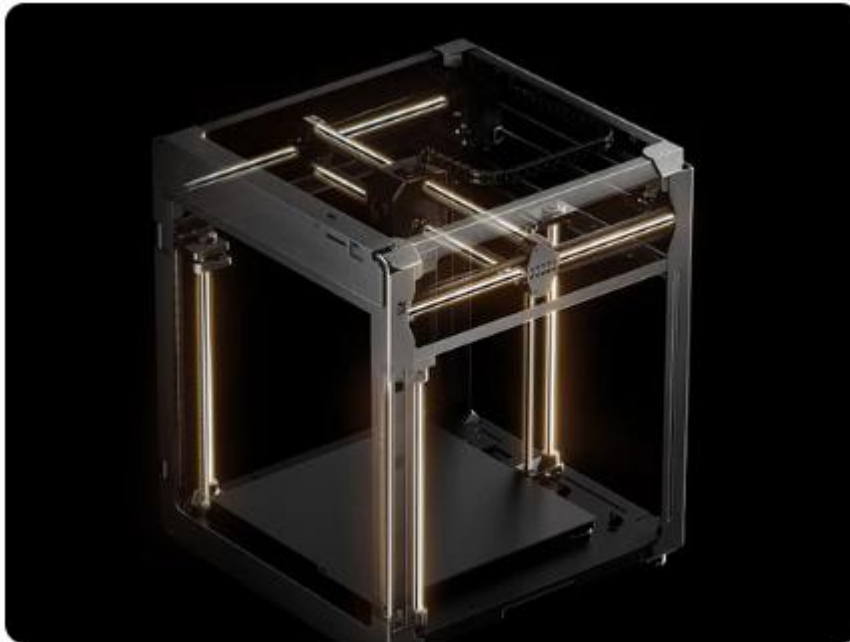


6. How many languages does the machine support?

Currently, the machine supports Chinese, English, German, French, Italian, Spanish, Japanese, Russian, Korean, and Portuguese, for a total of 10 languages.

7.What system does the machine use?

Kobra S1 Max adopts the fully enclosed CoreXY system shown below, which can effectively print engineering-grade filaments.



8.Is the Kobra S1 Max Combo compatible with the first-generation ACE Pro?

The Kobra S1 Max Combo is designed to work with the second-generation ACE 2 Pro (which has more and more complete features) and is currently not compatible with the first-generation ACE Pro.

9.Are the accessories of Kobra S1 Max compatible with the old S1 series accessories?

Kobra S1 Max Combo has unique hotend, hotbed, nozzle, and ACE 2 Pro accessories. Only a few components, such as the four-in-

one-out module and the filament runout/jam detection module, are shared.

Model printing-related questions:

1.What types of filaments can Kobra S1 Max print?

Consumer-grade filaments: PLA, PETG, TPU (95A), ACE-specific TPU, PLA-CF, PETG-CF, PVA

Engineering-grade filaments: ABS, ASA, PC, PA, PA6-CF, PC-CF /GF

2.How many colors does the machine support at most?

One ACE 2 Pro is included as standard, supporting 4-color printing. By connecting 4 ACE 2 Pro units and additionally using 2 four-in-one-out hubs and 1 two-in-one-out hub, 16-color printing can be achieved.

3.Does Kobra S1 Max support filaments from other brands?

Under normal circumstances, all filament types shown as compatible on the product page can be printed normally, whether produced by our company or other manufacturers. However, recommended temperatures and performance vary among filament manufacturers. For optimal filament parameters, we recommend confirming with the filament manufacturer.

PS: We recommend using official filaments for printing. The recommended parameters in our official slicing software are tested and adapted by our testing department.

Machine difference questions:

1. What are the differences compared with Kobra 3 Max?

- ① Supports more colors: Kobra S1 Max supports 16-color printing, while Kobra 3 Max supports 8-color printing.
- ② Different configurations: Kobra S1 Max Combo supports ACE 2 Pro, while Kobra 3 Max Combo supports ACE Pro.
- ③ Supports more filament types: Kobra 3 Max Combo only supports PLA / PETG / TPU (TPU is not compatible with ACE Pro).
- ④ Function upgrade: Kobra S1 Max is equipped with a 65°C active heated chamber, which helps prevent warping and deformation when printing high-performance materials such as ABS carbon fiber, ensuring more stable print results. Kobra 3 Max does not have this function.

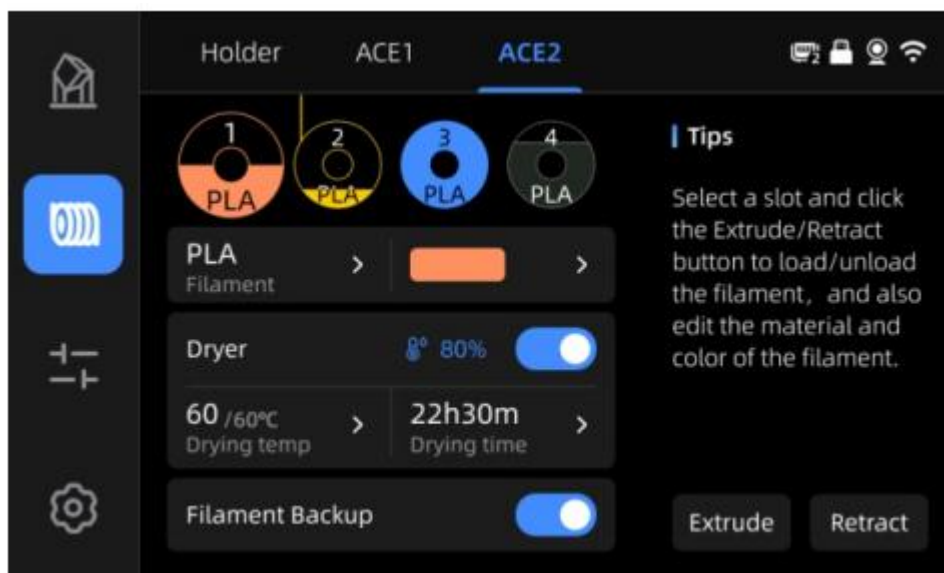
2. What improvements does it have compared with Kobra S1?

Kobra S1 Max provides a larger print size of 350 × 350 × 350 mm³. In addition, the 350°C hotend + 120°C hotbed + 65°C chamber temperature maintenance function enables stable printing of

f engineering materials. Also, S1 supports up to 8-color printing, while S1 Max supports up to 16-color printing.

3. What improvements does ACE 2 Pro have compared with the first-generation ACE Pro?

ACE 2 Pro supports 65°C drying and temperature and humidity detection, and also provides sealed storage and active dehumidification. In addition, the filament loading/unloading components and buffer mechanism have been fully upgraded to provide better printing stability. ACE 2 Pro also adds a remaining filament detection function, allowing you to view the remaining filament amount of each spool on the display.



ACE 2 Pro FAQ

Q: Which printer models are supported by the ACE 2 Pro?

A: ACE 2 Pro compatibility details:

Printer Model	Supported	
Kobra 2 及以下系列	Not supported	
Kobra 3/Combo Kobra 3 V2/Combo Kobra 3 Max/Combo Kobra S1/Combo	Supported	Requires a signal adapter cable
Kobra X /Combo Kobra S1 Max/Combo	Supported	

Q: Can the ACE 2 Pro and ACE Pro be used simultaneously?

A: Currently, simultaneous use of the ACE Pro and ACE 2 Pro is not supported.

Q: What are the maximum and minimum drying temperatures for the ACE 2 Pro?

A: Drying temperatures: Maximum 65°C, Minimum 35°C.

Q: Does the ACE 2 Pro have exhaust vents?

A: The unit features two exhaust vents on its body, allowing internal humidity to be expelled from the chamber.

Q: Where are the exhaust and intake ports located on the ACE 2 Pro?

A: One is located on the back of the unit, and the other is on the bottom.

Q: How many spools can the ACE 2 Pro accommodate simultaneously?

A: The ACE 2 Pro can accommodate a maximum of two spools at the same time.

Q: What is the rated power of the ACE 2 Pro?

A: Rated Power: 235W / 300W.

Q: How many ACE 2 Pro units can be daisy-chained together?

A: The ACE 2 Pro supports the Kobra 3 series and Kobra S1 series.

Printer Model	Quantity	Notes
Kobra S1/Combo Kobra S1 Max/Combo Kobra X/Combo	Supports daisy-chaining up to 4 units	Requires a signal adapter cable
Kobra 3/Combo Kobra3 V2/Combo Kobra 3 Max/Combo	Supports daisy-chaining up to 2 units	

Q: Does the ACE 2 Pro require an external power adapter?

A: No, it does not. The ACE 2 Pro features a built-in power supply module; it requires only a power cable and a signal cable.

Q: Can the ACE 2 Pro dry filament while printing is in progress?

A: Yes, it can. The available drying modes are: Dry-while-Printing, Pre-drying (Dry-then-Print), and Standalone Drying.

Q: Does the 3D printer need to be powered on while the ACE 2 Pro is drying filament? It must be powered on. The ACE 2 Pro must be connected to the printer via a signal cable; ensure that the printer is powered on and set to the "material drying" mode.

A: Friendly Reminder: The ACE 2 Pro cannot perform offline drying—i.e., drying while disconnected from the printer.

Q: Does the ACE 2 Pro support drying solely by connecting a power cable?

A: The ACE 2 Pro cannot perform offline drying while disconnected from the printer. When utilizing the drying function, the ACE

2 Pro must be connected to the printer via a signal cable; ensure that the printer is powered on and set to the "material drying" mode.

Q: What is the maximum drying duration for the ACE 2 Pro?

A: 2–24 hours; the drying duration should be set according to the moisture level of the material.

Q: Can the ACE 2 Pro device be used with cardboard spools?

A: We do not officially recommend using cardboard spools (made of cardboard or stiff paper) directly. Cardboard spools can easily interfere with the device's normal operation; the material is relatively coarse and prone to fraying or shedding paper dust. During high-speed feeding, the frictional resistance is significantly higher than that of plastic spools, which can lead to issues such as filament feeding difficulties, under-extrusion, or even motor slippage. Furthermore, as printing time increases, the edges of cardboard spools are prone to deformation, causing the spool to tilt and ultimately resulting in print failure.

If you currently possess unfinished cardboard spools, we recommend printing specialized "spool guards" or "adapter rings" on your printer to fit onto both sides of the cardboard spool. These guard

s can significantly reduce edge friction, prevent paper debris from falling, and improve rotational stability.

Tips: Please ensure compatibility with the dimensions of your specific cardboard spool. For consumables manufactured by Anycubic, you can find the corresponding spool guard models available for printing within the test files pre-loaded on the printer.

Q: What are the spool parameter requirements for the filament box?

A: The device supports only standard 1kg filament spools. The spool dimensions must fall within the following ranges: width of 60–68 mm, diameter of 195–200 mm, and outer wall thickness of 3–6 mm.