Sermoon D3

Stable and Reliable Productivity Tool

- Industrial Grade Stability
- 300°C High-temp Printing
- Up to 5x Printing Speed
- Multi-printers Control

Sermoon D Series for Industrial Designers

The Sermoon D series is tailor-made for industrial designers.
Be it prototyping, jigs and fixtures making, or design verification, it gets them all covered.
You can even use it to mass-produce some small but oddly shaped parts or products.
The beauty is that it delivers prints rapidly with stable and high quality in a cost-effective way.

- Parts & Components Making
- Jigs & Fixtures Making
- Education & Research
- More Applications

720h (30 days) non-stop steady printing*
8,000h failure-free steady printing*
* Data from Creality Lab

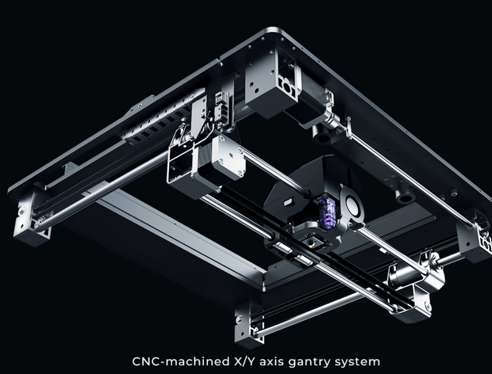
Industrial Grade Stability

Sturdy frame featuring thick metal plates and 4 vertical aerospace aluminum profiles. All the X, Y and Z axis are assisted with stainless steel linear shafts of 60HRC hardness. The printer holds well against the inertia force of the moving printing head.

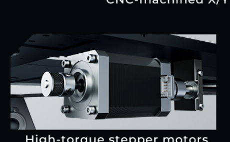
- Sturdy steel bottom plate
- 8mm aerospace aluminum top plate
- Aerospace aluminum profiles
- 16mm Z-axis linear shaft x2
- 12mm aluminum alloy heat bed base

Precision-made to Minimize Mechanic Errors

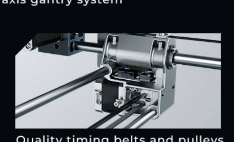
The integrated X/Y axis gantry system is CNC machined with 0.01mm precision for a seamless fit.
The precise high-torque motors and durable timing belts and pulleys further reduce mechanical errors and boost accuracy.



CNC-machined X/Y axis gantry system



High-torque stepper motors



Quality timing belts and pulleys

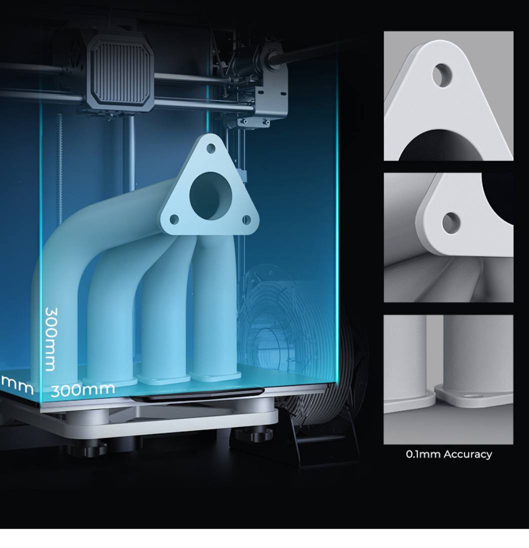
Reliable Extrusion at 300℃ Temperature

The "Sprite" dual-gear direct drive extruder delivers strong extrusion and retraction force. The inner-polished copper alloy nozzle and bi-metal heat break work smoothly at a lasting high temperature with less heat creep.
And, it has the two large 5015 cooling fans.

14 Filaments at Choice

Regular Filaments: PLA, PLA-Wood, PETG, PET;
High-strength Filaments : ABS, PA66, ASA, PC, PC-ABS;
Flexible Filaments : TPU95A, TPC;
Wear-resistant Filaments: PLA-CF, PA66-CF, PET-CF

*Note: For flexible filaments, please install and use the backup filament spool holder on the top of the printer.



0.1mm Accuracy

Big But Also Delicate

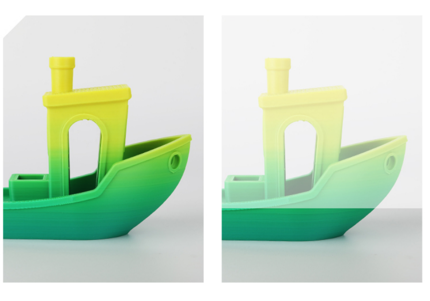
Sermoon D3 offers a generous 300×250×300mm build volume. Meanwhile, this stable and accurate machine creates breathtakingly delicate prints featuring 0.1mm accuracy, with layer texture hardly visible.

Up to 5 Times of Printing Speed

The advanced stepper motor driver chip enables 1/256 microstepping, realizing smooth printing at up to 5 times of speed. The production capacity will increase by several times for a given period of time.

PLA – 2 times of speed on default*
PLA – Up to 3 times of speed*
ABS – Up to 5 times of speed*

* Data from Creality Lab



Test model: Benchy	Nozzle temp.: 260°C
Filament: ABS	Heat bed temp.: 110°C
Layer Height: 0.24mm	Infill speed: 250mm/s
Infill Density: 10%	Travel speed: 250mm/s
Time used: 40min	Acceleration: 1000mm/s²

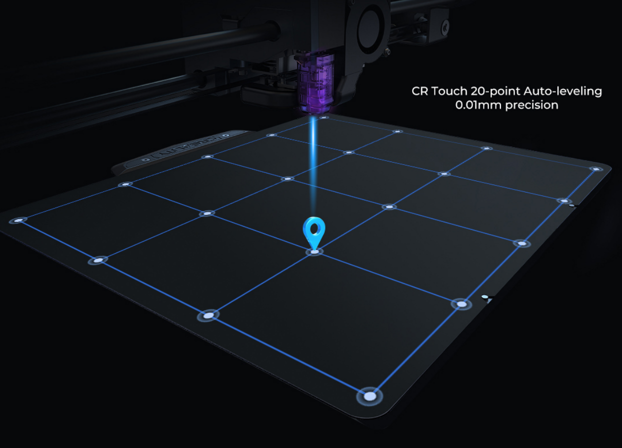
Connected for a Smarter Way of Working

Remote Printing: Once the printer is connected via WiFi or RJ45 Ethernet port to the LAN or Internet, users can print from a PC or phone with Creality Print software or Creality Cloud App.

Remote Monitoring: With the built-in webcam, users can monitor the printing progress in real-time on the Creality Cloud. Time-lapse filming is also allowed.

Scale It Up With Multi-printers Control

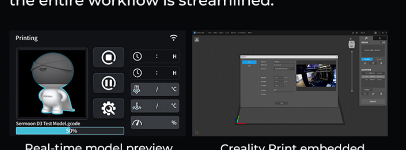
With multiple Sermoon D3 printers connected to the LAN or Internet, models can be batch-printed according to a single command from Creality Print. Users can also divide a large model into small parts and print them with more printers.



CR Touch 20-point Auto-leveling
0.01mm precision

Get Things Streamlined

From one-click model slicing, auto-leveling to model preview and remote control, the entire workflow is streamlined.



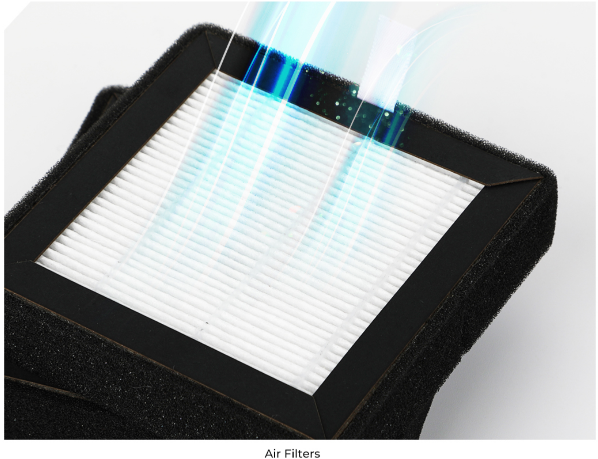
Real-time model preview & printing progress display

Creality Print embedded with Creality Cloud

Less Cracking with Heat Contained

The heat bed adjustable up to 110°C matches well with the heat-retaining enclosure.
The print now has an even and hot enveloping atmosphere free from ambient airflow, thus less cracking and edge curling.

*Note: The enclosure is for printing with ASA, PA, ABS and other filaments of a high melting point. For regular filaments such as PLA and TPU, please remove it while printing.



Air Filters

Considerate Safety Features

The 2 built-in HEPA air filters will purify PM0.3 particles and toxic compounds generated during printing with ABS and other filaments.

When the door is opened during printing, the printer will send alarms, pause and quickly cool down, so as to prevent scalding or pinching.

Door Sensor

Accessories to Facilitate Work

Both PC and PEI spring steel sheets.
Easily stick to different materials.
Quick print removal with a slight bend.

An extra steel nozzle (7.8 Mohs Hardness, 8.0μm/m·°C expansion coefficient) kit is included to print with fiber-reinforced materials.
You can replace it in 5 minutes.

A professional tool kit is also available for the convenience of users.

Showcase of Applications

* Data from Creality Lab

Machinery Industry	Nozzle temp: 260°C
Filament: HP ULTRA ABS	Heat bed temp: 110°C
Layer height: 0.28mm	Infill speed: 250mm/s
Infill density: 15%	Travel speed: 250mm/s
Time used: 13h	Acceleration: 1000mm/s²

General Manufacturing	Nozzle temp: 300°C
Filament: PET-CF	Heat bed temp: 80°C
Layer height: 0.2mm	Infill speed: 60mm/s
Infill density: 15%	Travel speed: 120mm/s
Time used: 6h	Acceleration: 500mm/s²

Automotive Industry	Nozzle temp: 280°C
Filament: PC-ABS	Heat bed temp:1 10°C
Layer height: 0.2mm	Infill speed: 60mm/s
Infill density: 15%	Travel speed: 120mm/s
Time used: 20h	Acceleration: 500mm/s²

Medical Industry	Nozzle temp: 240°C
Filament: CR-PETG	Heat bed temp: 80°C
Layer height: 0.2mm	Infill speed: 60mm/s
Infill density: 15%	Travel speed: 120mm/s
Time used: 8h	Acceleration: 500mm/s²

Education & Research	Nozzle temp: 205°C
Filament: HP ULTRA PLA	Heat bed temp: 60°C
Layer height: 0.2mm	Infill speed: 80mm/s
Infill density: 10%	Travel speed: 120mm/s
Time used: 29h	Acceleration: 500mm/s²

Parts & Components Making	Nozzle temp: 250°C
Filament: CR-PA Carbon	Heat bed temp: 100°C
Layer height: 0.2mm	Infill speed: 80mm/s
Infill density: 15%	Travel speed: 160mm/s
Time used: 13h	Acceleration: 500mm/s²

Parameters

Printing Technology: FDM	**Build Surface**: PC spring steel sheet, PEI spring steel sheet
Build Volume: 300*250*300mm	**Extruder Type**: "Sprite" dual-gear direct drive extruder
Product Dimensions: 553*576*656mm	**Leveling Mode**: CR Touch auto-leveling
Package Dimensions: 695*670*700mm	**Display**: 4.3-inch touch screen
Net Weight: 45kg	**Mainboard**: Integrated 32-bit silent mainboard
Gross Weight: 50kg	**Connectivity**: U-Disk, WiFi, RJ45 cable
Printing Speed: PLA≤150mm/s, ABS≤250mm/s	**Printable File Format**: G-Code
Printing Accuracy: ±0.1mm	**Power Loss Recovery**: Yes
Layer Height: 0.1-0.4mm	**Filament Runout Sensor**: Yes
Filament Diameter: 1.75mm	**Pause While Opening Door**: Yes
File Transfer: U-Disk, LAN, Creality Cloud	**Air Filtration**: Yes
Nozzle Kit Type: Copper Alloy Nozzle Kit, Hardened Steel Nozzle Kit	**Camera**: Built-in 1080P HD Camera
Nozzle Diameter: 0.4mm	**Rated Voltage**: 100-240V ~, 50/60Hz
Nozzle Temperature: ≤300°C	**Rated Power**: 500W
Heat Bed Temperature: ≤110°C	**File Formats for Slicing**: STL, OBJ, 3MF
Slicing Software: Creality Print, Creality Slicer, Cura, Simplify3D	
UI Languages: English, Spanish, German, French, Russian, Portuguese, Italian, Turkish, Chinese	
Supported Filaments: PLA, PLA-Wood, PETG, PET, ABS, PA66, ASA, PC, PC-ABS, TPU95A, TPC, PLA-CF, PA66-CF, PET-CF	