Creality Ender-3 S1 - 220*220*270 mm

The Ender 3 S1 is a new and improved version of the very successful Ender 3. Equipped with a newly developed direct dual-gear extruder, automatic bed leveling, 32-bit silent mainboard, among other things, the S1 is a very affordable printer with everything you could wish for at this price point. It boasts a unique design 'Sprite' extruder allowing you to print flexible materials out of the box. It comes pre-fitted with a CR-Touch too! The CR-Touch is an optical bed levelling sensor for next level accuracy, as well as having an optical sensor, it has a metal push pin, lasting much longer than the traditional polycarbonate pins. It boasts Dual-Z leadscrews for extra stability across the X axis and it also has a synchronous belt to keep the leadscrews in sync with one another. This is arguably the best designed Ender 3 they have released, the whole machine looks sleek and their choice of materials really finishes this machine off.

Highlights

- New "Sprite" Direct Dual-gear Extruder
- Z-axis -dual screw
- 4,3" LCD screen with simple-to-use UI
- Automatic 16-point bed leveling system
- Flexible and removable spring steel build surface
- 32-bit quiet mainboard for silent printing
- Resume print after power loss
- Filament run-out sensor

Ender-3 S1

"Sprite",Bringing Your Ideas to Life

"Sprite" Direct
Dual-gear Extruder

CR Touch Automatic
Bed Leveling

High-precision
Dual Z-axis

Enhanced Strength
More Reliability

"Sprite" Direct Dual-Gear Extruder
Compatible with various filaments

CR Touch Automatic Bed Leveling
Easier leveling

32-bit Silent Mainboard
Silent printing

Z-axis Dual-Screw
Safe and stable

Supporting a Variety of Filaments
PLA/TPU/PETG/ABS

Quick Assembling
96% pre-installed

PC Spring Steel Print Sheet
Good adhesion and easy to remove printed models

4.3-inch LCD Screen
Brand-new simple UI interface

Practical Preset Interface
Strong expandability

"Sprite" Direct Dual-gear Extruder Compatible with Various Flexible Filaments

Our brand-new self-developed "Sprite" direct dual-gear extruder

features two chrome steel gears that are engaged at a 1:3.5 gear ratio. With a pushing force of up to 80N,[1] the extruder realizes smooth feeding and discharging of filaments without slipping and works extremely well in printing flexible filaments such as TPU. Compared with other direct extruders, the "Sprite" is lighter and features less inertia and more precise positioning.

Dual metal gears for feeding with pushing force of up to 80N

210g

Lightweight Only 210g[2]

Direct extrusion supporting flexible filaments

-30% weight

[1] The above pushing force value is obtained through testing with CR–PLA White filament in the Creality Lab.

[2] Ordinary extruders on the market weigh around 300g.

CR Touch Automatic Bed Leveling Device Make Leveling Worry-free
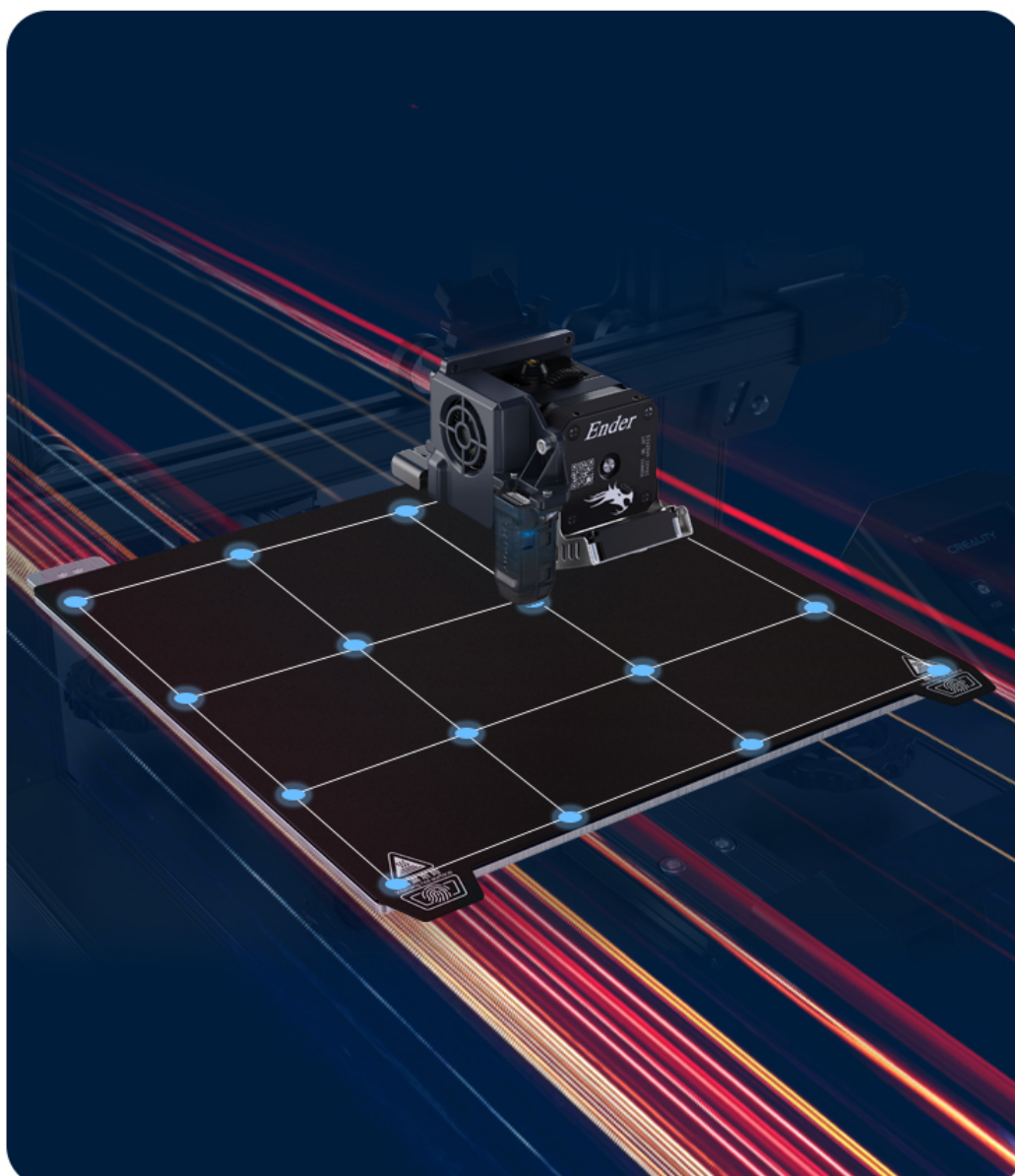
Our self-developed CR Touch 16-point automatic bed leveling technology saves you the trouble of manual leveling. Simple and easy to use, the intelligent leveling system can automatically compensate for the printing height of different points of the heatbed.
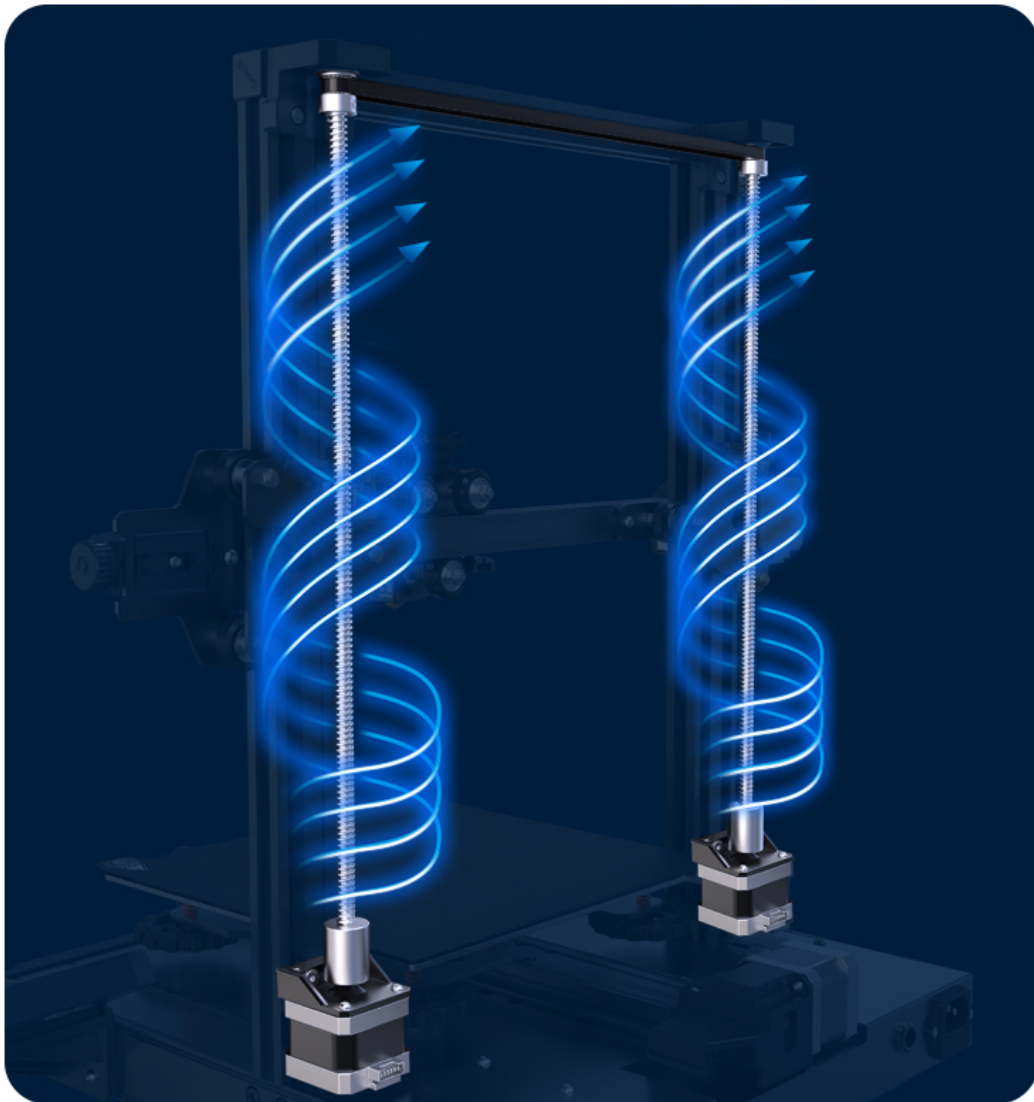
Automatic bed leveling

16-point precise leveling

High-precision Dual Z-Axis Higher Printing Precision

With a Z-axis dual-screw+Z-axis dual-motor design, Ender-3 S1 works smoother and more synchronously to lower the possibility of lines and ridges on the sides of your print, thus improving the printing quality.

Design of Z-axis dual-screw
Synchronized coordination

Removable PC Spring

Steel Print Sheet
Easy to Remove Printed Models

The innovative printing platform is a combination of a PC coating, a spring steel sheet and a magnetic sticker, which sticks to the surface immediately when released.
The PC coating brings good adhesion and printed models can easily be removed by bending the print sheet.

Good adhesion and easy to remove printed models
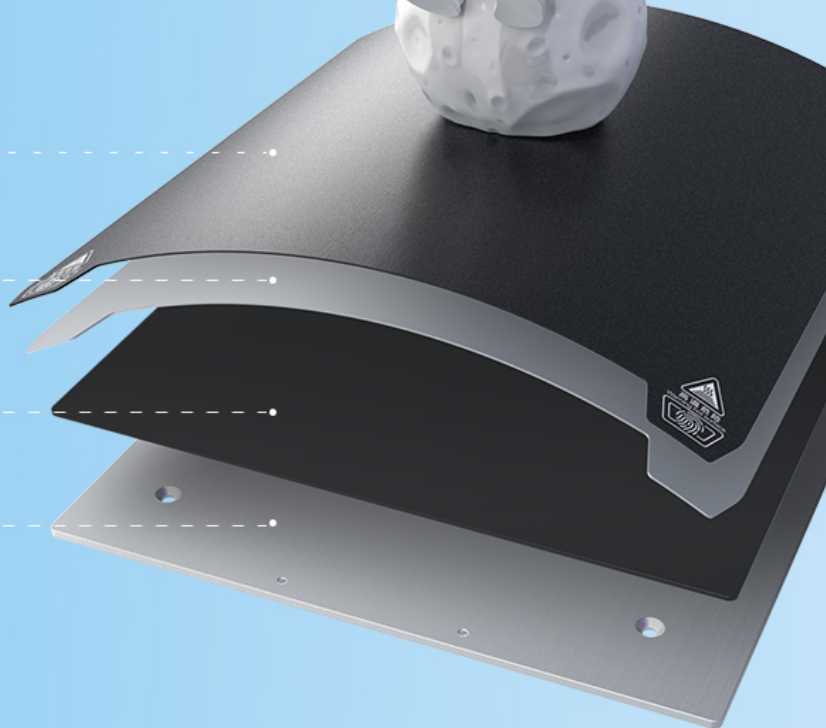
Remove models by bending the print sheet

PC coating

Spring steel sheet

Magnetic sticker

Printing platform

Low-noise Operating
Allows You to Enjoy Printing

The brand-new 32-bit silent mainboard runs at low decibel levels, greatly reducing noise to let you enjoy your printing.

32-bit

Silent mainboard

≤50dB
Noise level

50~60dB
Talking inside

40~50dB
Pattering of raindrops

30~40dB
Quiet library

* The above data are based on tests in a professional
silent laboratory at a distance of 0.5m.

The Screen Allows you to Operate at Ease

The 4.3–inch knob LCD screen features a brand–new UI interface to facilitate simple interaction that allows you to experience operation by knob. It automatically dims out when inactive for 5 minutes, saving energy and protecting the environment.
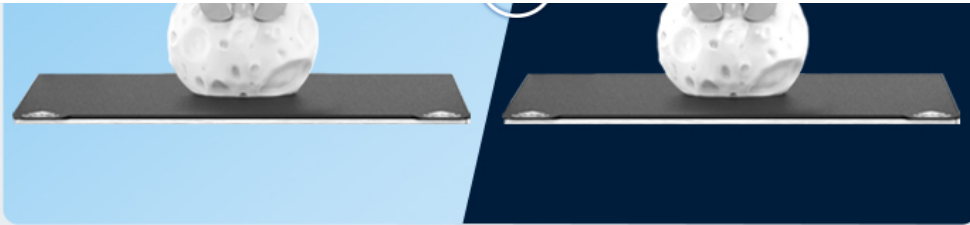
Brand–new
UI interface

Automatic
screen dimming

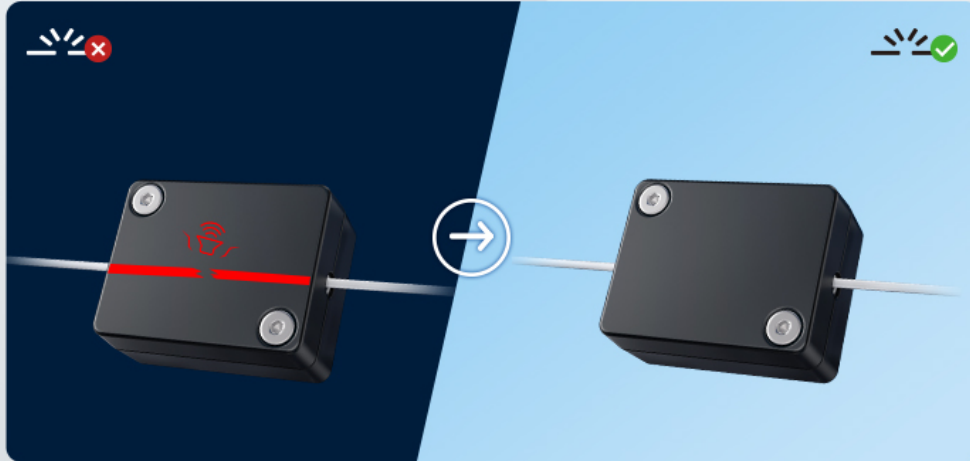# Double Protection
No Fear of Risks

Ender–3 S1 features the function of detecting filament runout or breakage/power loss and resume printing after recovery. By accurately recording the printing data at the time of power outage/filament runout or breakage, it helps to avoid the waste of filaments and time caused by accidents.

Resume printing
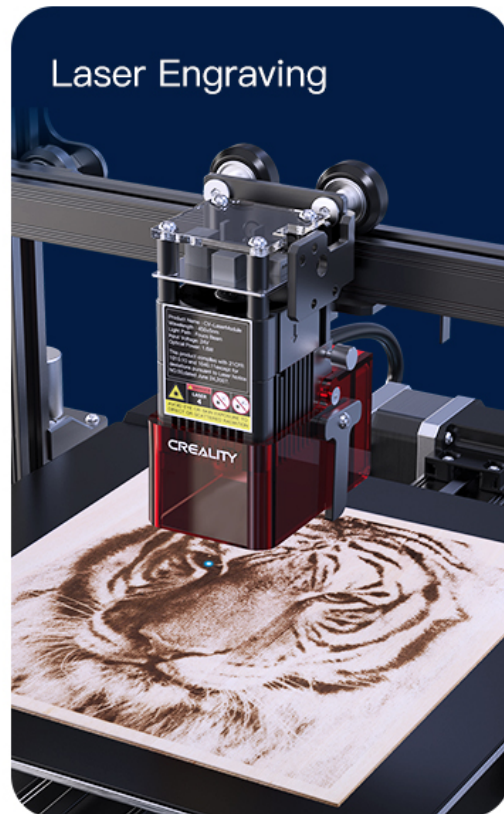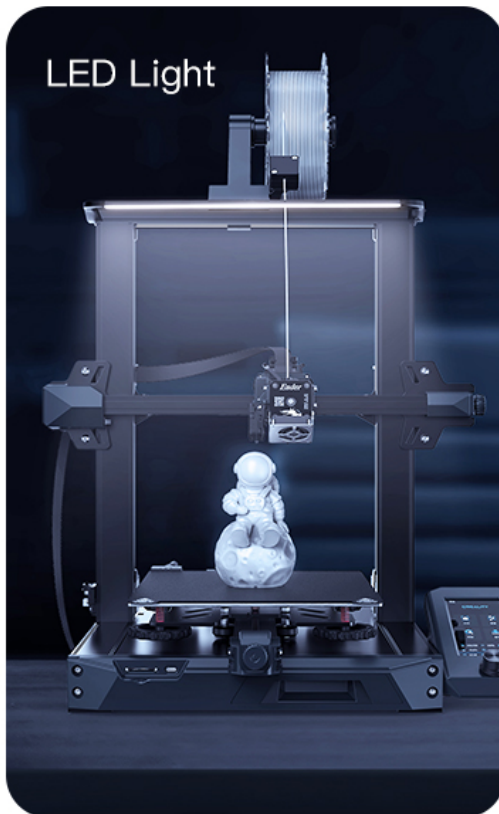
Filament Sensor

Simple 6-Step Assembling

96% of the printer body is pre-installed, making assembling extremely convenient with only 6 steps and the maintenance of the printer is simple and easy.
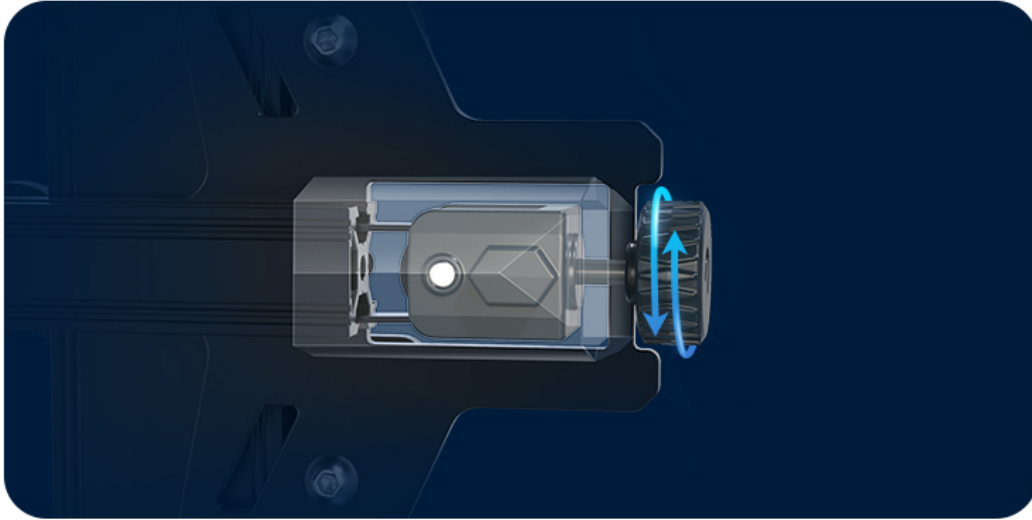
More Details Optimized for a Better User Experience

Creative Potential

With preset interfaces for laser engraving and LED light Ender–3 S1 brings you more possibilities.

LED Light

Laser Engraving

*Laser engraving and LED light need to be purchased separately

Knob Type Belt Tensioner

The belt tensioner is an easy-to-use tool that helps prevent problems such as layer shifting caused by inadequate tightness.

International Certification
Quality Assurance

Ender-3 S1 has passed certification from professional testing organizations,and was awarded many countries' safety certificates such as CE,FCC,UKCA,PSE,RCM and so on.Good quality let you rest assured.

UKCA	FCC	CE	PSE	RCM
Certified by UKCA	Certified by United States' FCC	Certified by EU's CE	Certified by Japanese PSE	Certified by Australian RCM

Compatible with Various Filaments Unleash Your Imagination

Compatible with more filaments, it can print PLA, TPU, PETG, ABS, etc., enabling you to release your creativity.
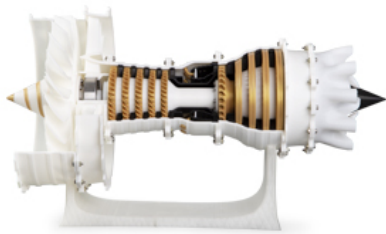
Structural design

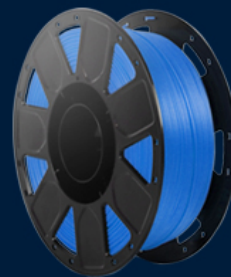## Artistic originality

Manufacturing
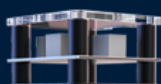
Education & research

Recommended Accessories
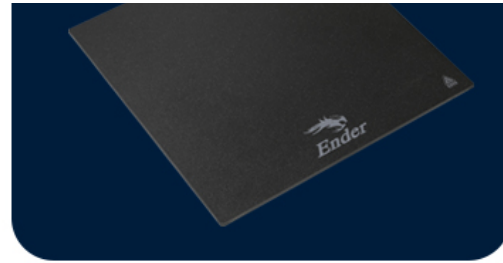
CR–TPU Filament

Ender PLA Filament

CV–LaserModule

Power Coated PEI Glass

Product Parameters

Modeling technology	Printer size
FDM	487*453*622mm
Build size	Package size
220*220*270mm	540*510*260mm
Supported filament	Printing layer thickness
PLA/TPU/PETG/ABS	0.05–0.35mm
Printing speed	Nozzle diameter
150mm/s at the maximum	0.4mm
Printing precision	Maximum nozzle temperature
±0.1mm	260°C
Number of nozzles	Maximum heatbed temperature
1	100°C
Filament diameter	Package gross weight
1.75mm	11.2kg
Machine net weight	Extruder gear ratio
9.1kg	1:3.5
Type of extruder	Printing platform
"Sprite" Direct Extruder	PC Spring steel sheet
Automatic bed leveling	Mainboard
CR Touch	32–bit silent mainboard
Screen	Resume printing
knob color screen	supported
Filament sensor	Printing method

supported

Type-C USB/SD card

Rated voltage
115/230V

Supported language
English/Chinese

Rated power
350W

Supported file format
STL/OBJ/AMF

Slicing software
Creality Slicer/Cura/Repetier-Host/Simplify3D