

Ultimaker S5

Office-friendly, 3D printer, industrial-class results

Meet the easy-to-use desktop 3D printer with a large build volume that delivers accurate, industrial-grade parts, time and again.

Built to run continuously and maximize uptime, Ultimaker S5 combines dual extrusion, advanced connectivity, and an open filament system — ready to make 3D printing accessible for even more applications, from rapid prototyping to creating on-demand tooling and end-use parts.

Reliability at scale

Every day, hundreds of thousands of engineers, designers, architects, and medical professionals around the world rely on Ultimaker 3D printers for their work. Ultimaker S5 takes this dependability and performance to the next level with a range of new and refined features:

- **Bigger build volume:** A build volume of 330 x 240 x 300 mm (13 x 9.4 x 11.8 inches) is the biggest yet in an Ultimaker 3D printer, but still fits comfortably on your desk.
- **Enhanced first-layer adhesion:** The Ultimaker S5 print head's capacitive sensor scans the build plate at multiple points and compensates for any tiny variations in its surface by adjusting the Z-axis height in your print's first layers, ensuring your print starts perfectly, time and again.
- **Improved printing environment:** Glass doors help control airflow inside the printer for even better print quality and reliability. A new anodized aluminum build plate gives a more reliable printing experience for engineering materials and a more consistent surface finish on the base of your model.
- **Filament flow sensor:** Ultimaker S5 detects if you need to replenish filament during a print, pauses, and notifies you to add more material before resuming. The result? You can still finish a print even if you run out of material — and more successful prints means greater return on your investment, and increased efficiency.



- **Dual extrusion for complex designs:** Ultimaker's dual-extrusion technology is the most reliable on the market, enabling you to print in two materials or colors. Print with Nylon, CPE, or PLA combined with water-soluble PVA support material to realize complex, technical models, then simply dissolve away supports to leave a flawless surface finish.
- **Fast, customizable setup with print cores:** Material-matching print cores with built-in EEPROM chips are auto-detected by the printer, minimizing downtime during configuration. Swap print cores in seconds to switch from a build and support material combination to dual-color 3D printing.
- **Productivity has never been easier:** A 4.7 inch touch display makes operation effortless, with images to help explain how to configure the printer, plus a visual preview of your print.

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Find your local reseller: [Ultimaker.com/resellers](https://ultimaker.com/resellers)

More info: [Ultimaker.com](https://ultimaker.com)

Ultimaker S5 Specifications

Printer and printing properties

Technology	Fused filament fabrication (FFF)
Print head	Dual-extrusion print head with an auto-nozzle lifting system and swappable print cores
Build volume	XYZ: 330 x 240 x 300 mm (left or right nozzle, or dual extrusion)
Filament diameter	2.85 mm
Layer resolution	0.25 mm nozzle: 150 - 60 micron 0.4 mm nozzle: 200 - 20 micron 0.8 mm nozzle: 600 - 20 micron
XYZ resolution	6.9, 6.9, 2.5 micron
Build speed	<24 mm ³ /s
Build plate	Heated glass build plate, Heated aluminum build plate (available fall 2018)
Build plate temperature	20 - 140 °C
Build plate leveling	Active leveling
Supported materials	Optimized for: PLA, Tough PLA, Nylon, ABS, CPE, CPE+, PC, TPU 95A, PP, PVA, Breakaway (also supports third-party materials) In the box: UltimakerTough PLA Black 750 g, Ultimaker PVA 750 g
Feeder type	Dual-gear, abrasion-resistant (ready for composite materials)
Nozzle diameter	0.25 mm, 0.4 mm, 0.8 mm
Nozzle temperature	180 - 280 °C
Nozzle heat up time	<2 min
Build plate heat up time	<4 min (from 20 to 60 °C)
Operating sound	50 dBA
Power rating	500 W
Material recognition	Auto-recognition with NFC scanner
Connectivity	Wi-Fi, LAN, USB port
Display	4.7-inch (11.9 cm) color touchscreen
Language support	English, Dutch, French, German, Italian, Japanese, Korean, Portuguese, Russian, Spanish, Simplified Chinese
Monitoring	Live camera (view from desktop or app)

Physical dimensions

Dimensions	495 x 457 x 520 mm 495 x 585 x 780 mm (with bowden tubes and spool holder)
Net weight	20.6 kg
Shipping weight	29 kg
Shipping box dimensions	650 x 600 x 700 mm

Ambient conditions

Operating ambient temperature	15 - 32 °C, 10 - 90% RH non-condensing
Non-operating temperature	0 - 32 °C

Software

Supplied software	Ultimaker Cura, our free print preparation software Cura Connect, our free printer management solution
Supported OS	MacOS, Windows and Linux
Plugin integration	SolidWorks, Siemens NX
File types	Ultimaker Cura: STL, OBJ, X3D, 3MF, BMP, GIF, JPG, PNG Printable formats: G, GCODE, GCODE.gz, UPF

Warranty and service

Warranty period	12 months
Technical support	Lifetime support from Ultimaker's global network of certified service partners

Ultimaker



Discover a seamless, end-to-end, 3D printing workflow

Powerful Ultimaker Cura software

Trusted by more than 2 million users, Ultimaker Cura prepares your 3D model for printing. And with preconfigured Ultimaker S5 profiles, you get the best results instantly.

Do more with Cura Connect

Connect one or more network-enabled Ultimaker 3D printers and create your own automated, mini-production line — perfect for 3D printing in the office.

Ultimaker app

You can now control your Ultimaker 3D printers with a few taps from your phone or tablet when you're on the same local network, and get notifications wherever you are so you can always stay updated on your print's progress.

Materials to suit your needs

Whether you need quick and simple concept models, strong tooling ready for the wear and tear of the production line, or parts with special resistant properties, it's all possible with Ultimaker materials. Or take advantage of the Ultimaker S5's open filament system for a custom material solution.

Our dedicated network — your global support system

Ultimaker places quality at the heart of our company. That's why all our 3D printers and software come with lifetime technical support and customer service — wherever you are, and whenever you need it.

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