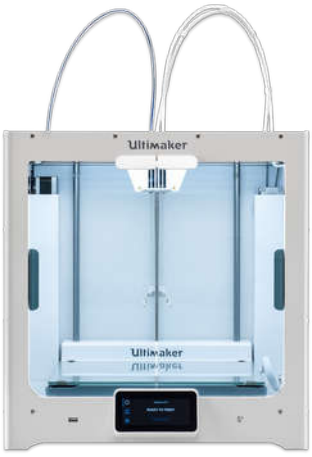


Ultimaker S5

Product data sheet

Reliability at scale

The Ultimaker S5 is built to maximize uptime with great print results and a large build volume. It delivers best-in-class technical specifications for a desktop 3D printer, plus the performance and peace of mind that comes with using our complete 3D printing solution – one trusted by hundreds of thousands of professionals worldwide.

Open and connected system

With the Ultimaker S5, you are not only getting a market-leading 3D printer. Our open filament system ensures you are never locked in. Our online Ultimaker Marketplace gives you free access to material profiles from leading brands. And our software simplifies the 3D printing workflow, from integration with leading CAD platforms to managing your printers via your network or the cloud.

Key features

- ✓ **Larger build volume:** Scale up with bigger parts or batch production
- ✓ **Network connectivity:** Print via Wi-Fi, LAN, cloud, or with USB
- ✓ **Touch screen:** Effortless operation via an award-winning user interface
- ✓ **Advanced active leveling:** Reliable first-layer adhesion, enables unattended use
- ✓ **Front enclosure:** Improved printing environment for better print results
- ✓ **Flow sensor:** Stay informed when filament runs out to increase print success
- ✓ **Easy setup and monitoring:** With NFC material recognition and internal camera
- ✓ **Composite materials compatible:** Print parts with high strength and unique properties

Why choose Ultimaker

3D printers that simply work
Our award-winning 3D printers are robust, reliable, and easy to use. They deliver quality parts time and again. Certified to run 24/7, they allow you to achieve the results you need more quickly and easily.

Software ready for Industry 4.0
Trusted by millions of users across 14 languages, Ultimaker Cura integrates with any workflow through Ultimaker Marketplace plugins.
Then scale production and digital distribution with Ultimaker Cloud.

Material choice like never before
Ultimaker offers the widest material choice on the market. Through our Material Alliance, choose the perfect filament for your application – from advanced polymers to carbon fiber composites.

Support dedicated to your success
Wherever you are in the world, Ultimaker support is close by. Our global network of service partners offer professional installation, training, and maintenance in your language and time zone.

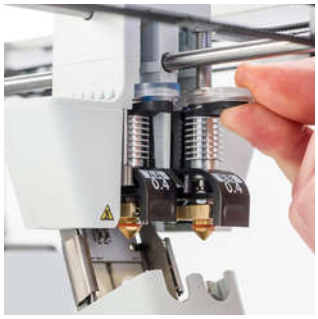
Request a quote today at ultimaker.com/quote/request

Ultimaker

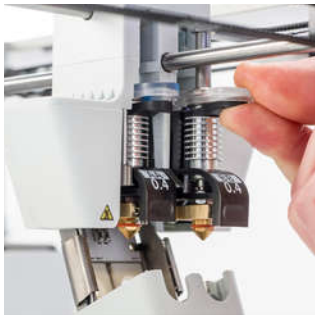
Ultimaker S5 specifications

Printer and printing properties	Technology	Fused filament fabrication (FFF)
	Print head	Dual extrusion print head with a unique auto-nozzle lifting system and swappable print cores
	Build volume (XYZ)	330 x 240 x 300 mm (13 x 9.4 x 11.8 in)
	Layer resolution	0.25 mm nozzle: 150 - 60 micron 0.4 mm nozzle: 200 - 20 micron 0.6 mm nozzle: 300 - 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 (20 - 140 °C)
	Nozzle diameter	0.4 mm (included) 0.25 mm, 0.6 mm, 0.8 mm (sold separately)
	Operating sound	< 50 dBA
	Connectivity	Wi-Fi, LAN, USB port
Physical dimensions	Dimensions (with Bowden tubes and spool holder)	495 x 585 x 780 mm (19.5 x 23 x 30.7 in)
	Net weight	20.6 kg (45.4 lbs)
Software	Supplied software	Ultimaker Cura, our free print preparation software Ultimaker Connect, our free printer management solution Ultimaker Cloud, enables remote printing
	Supported OS	MacOS, Windows, and Linux
Warranty	Warranty period	12 months

Compatible accessories



Print core AA
0.25, 0.4, 0.8 mm
Quick-swap nozzles minimize downtime



Print core BB
0.4, 0.8 mm
Specially designed for printing soluble support material



Print core CC
0.6 mm
Ruby-tipped for printing abrasive composites



Nozzle covers
x10
Replacement covers keep your print head in top condition

Compatible materials

Unlock a wide range of applications with complete material choice. Use Ultimaker materials, any third-party filament, or access material profiles from leading brands. Choose from these materials and more.

Easy to print and visual quality
- Ultimaker PLA
- Ultimaker Tough PLA

Mechanical strength
- Ultimaker ABS
- Ultimaker PC
- Ultimaker CPE

Wear resistance
- Ultimaker Nylon
- Ultimaker PP
- Igus Iglidur I180-PF

Heat resistance
- Ultimaker CPE+
- DSM Arnitel ID 2060 HT

Flexibility
- Ultimaker TPU 95A
- DuPont™ Hytrel® 3D4100FL

Reinforced composites
- Owens Corning XSTRAND™ GF30-PA6
- DSM Novamid® ID1030 CF10

Support
- Ultimaker PVA
- Ultimaker Breakaway

bsi. ISO 9001 Quality Management FM 686003 ISO 14001 Environmental Management EMS 692523

iF DESIGN AWARD 2019

Ultimaker

Specifications subject to change. EN 07/2019 v1.01