



UltiMaker S6

Product data sheet



Building on the award-winning S5 legacy, now with up to 4× productivity

Introducing UltiMaker S6, building directly on the great legacy of the UltiMaker S5, the S6 retains all its cherished versatility and modularity. We've added powerful innovations like the UltiMaker Cheetah motion planner, improved bed leveling, the new dual drive feeder and a flexible build plate. Delivering S8-like productivity gains of up to 4× over its predecessor, ensuring reliability remains paramount.

- ✓ **Proven versatility of the S5:** Enhanced in the UltiMaker S6 to achieve up to 4× productivity. Iterate designs faster and bring innovations to market quicker, backed by dependable performance and new features like the flex plate.
- ✓ **Effortless professional 3D printing:** Designed to be the most easy and accessible way to utilize the UltiMaker ecosystem – from advanced materials to Digital Factory and Cura Cloud – streamlining your workflow.
- ✓ **Reliable high output:** Achieve up to 4× the output without compromising on reliability. Features like improved bed leveling and the optional flex plate reduce print failures and simplify part removal.
- ✓ **High speed printing:** Blends S5 versatility with Cheetah motion, improved leveling, flex plate, and seamless cloud integration for accessible, fast printing. Seamlessly connected to Cura Cloud and Digital Factory for an accessible, high-speed printing experience.
- ✓ **Unmatched modularity:** Full accessory compatibility ensures a smooth transition, all at a more accessible price point. The S6 achieves up to 4× the output without compromising on reliability.
- ✓ **Easy UltiMaker access:** The UltiMaker S6 is your most straightforward and accessible entry point into the comprehensive UltiMaker ecosystem. Get up to 4× productivity, hundreds of materials, and powerful tools like Cura Cloud and UltiMaker Digital Factory, all within easier reach.
- ✓ **Uncompromized reliability:** Like its bigger brother the S8, the UltiMaker S6 achieves up to 4× the productivity of the S5, without compromising on the reliability UltiMaker is known for. This leap in performance is now more accessible, empowering more users.

The UltiMaker ecosystem offering



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



Software for Industry 4.0
Trusted by millions of users across 14 languages, UltiMaker Cura integrates with any workflow through UltiMaker Marketplace plugins. Scale production and digital distribution with UltiMaker Digital Factory.



Massive material selection
UltiMaker S series 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.



Success-oriented support
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.

UltiMaker S6 specifications

Printer and printing properties	Technology	Fused deposition modeling (FDM)
	Print head	Dual-extrusion print head with a unique auto nozzle-lifting system, flood detection and inductive probing
	Feeder type	Dual gripper feeder with tension adjustment, release functionality and filament feed-rate control
	Motion planner	Smooth, precise 3D printing with UltiMaker Cheetah. The world's first and only jerk limited motion planner, with third order continuous, smooth motion, and corner blending algorithm
	Filament diameter	2.85 mm
	Compatible print cores	AA+ 0.4 (included), CC+ 0.4, BB 0.4, 0.8 and DD 0.4 (sold separately) <i>*Legacy AA and CC print cores can be used in combination with pre-sliced print jobs.</i>
	Nozzle temperature	Up to 340°C (572 °F)
	Dimensional accuracy	±0.15 mm ±0.15% feature nominal length* <i>*Typical accuracy based on selected geometries, materials, and randomly selected machines</i>
	Build plate	Heated flexible PEI build plate (Up to 120 °C (248 °F)) or heated glass build plate (20 - 120 °C)
	Build volume (XYZ)	330 × 240 × 300 mm (~13 × 9.4 × 11.8 in)
	Layer resolution	60 - 400 microns (depending on the print core nozzle size and print profile)
	Extrusion flow	Up to 35 mm ³ /s
	XY speed, acceleration, jerk	Up to 500 mm/s, up to 50.000 mm/s ² , up to 100.000.000 mm/s ³
	Material handling	Dual spool holder with NFC recognition
	Operating sound	< 50 dBA
	Display	Fast responsive color touchscreen
	Monitoring	HD camera
	System on module	ARM cortex quadcore at 1.8 GHz
	Real-time controller	600 MHz Arm-cortex M7
	Connectivity	Wi-Fi 2.4 & 5 GHz: IEEE 802.11a/b/g/n/ac. LAN: Gigabit Ethernet. USB: 2.0
Physical dimensions	Dimensions	495 × 585 × 780 mm (~19.5 × 23 × 30.7 in) (inc. spool holder)
	Net weight	25 kg (55 lbs)
Ambient conditions	Operating temperature	15 - 32 °C (59 - 90 °F), 10 - 90 % RH non-condensing
	Non-operating temperature	0 - 32 °C (32 - 90 °F), 10 - 90 % RH non-condensing
Software	Print preparation	UltiMaker Cura 5.10.1 or newer Cura Cloud (no installation required)
	Printer management	UltiMaker Digital Factory
	Supported OS	Windows, MacOS, Linux
Warranty	Warranty period	24 months

Compatible accessories



AA+ and CC+ print cores
Quick-swap nozzles that enable higher flow rate.



Material Station
Simplified and automated material handling.



Air Manager
EPA filter removes up to 95% of UFPs.

Compatible materials

Easy to print

- UltiMaker PLA
- UltiMaker Tough PLA
- UltiMaker PETG

Durable

- UltiMaker ABS
- UltiMaker CPE
- UltiMaker Nylon

Flexible

- UltiMaker TPU 95A

Reinforced composites

- UltiMaker PET-CF
- UltiMaker Nylon CF Slide

Heat resistant

- UltiMaker CPE+
- UltiMaker PC

Support materials

- UltiMaker PVA
- UltiMaker Breakaway

