



UltiMaker S8 Secure

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Product data sheet



Proven performance, enhanced with hardened security features – made in the EU.

UltiMaker S8 Secure delivers up to 4× the productivity of its predecessor with improved print quality. Powered by UltiMaker Cheetah, high-flow print cores, and an improved feeder, it prints complex multi-material parts faster. Air-gapped operation, tamper-resistant hardware, and NATO-aligned compliance, the S8 Secure ensures full control and mission-readiness.

- ✓ **Up to 4× the productivity:** UltiMaker S8 Secure delivers blazing speed with defense-grade security. Powered by Cheetah motion planning and high-flow hardware, it prints up to 4× faster than the S7 – while staying air-gapped and NATO-aligned.
- ✓ **Industry-leading multi-material printing:** Print intricate, multi-material parts quickly and precisely. Its dual extrusion and high-flow print cores ensure peak performance for any application.

- ✓ **Backed by years of experience:** UltiMaker S8 Secure builds on over a decade of 3D printing expertise. It delivers trusted performance and high success rates with the security defense demands.
- ✓ **The largest open system in the world:** UltiMaker offers broad material flexibility in a secure, air-gapped platform built for defense.
- ✓ **Seamless integration for secure performance:** UltiMaker S8 Secure delivers reliable operation through a fully integrated ecosystem built for high-security use.
- ✓ **European-built with advanced security:** Made in the Netherlands and engineered with air-gapped operation and tamper-resistant hardware for high-security environments.
- ✓ **Get projects done faster:** UltiMaker S8 Secure boosts productivity with up to 4× faster print speeds – built to handle demanding projects in secure environments.

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 worldwide in 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, UltiMaker support is within reach. Our global network of service partners provides professional installation, training, and maintenance – in your language and time zone.

UltiMaker S8 Secure 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 prints with UltiMaker Cheetah – the only motion planner with jerk limitation, third-order continuity, and corner blending
	Filament diameter	2.85 mm
	Compatible materials	PLA, Tough PLA, PETG, ABS, PET CF, Nylon CF Slide, Nylon, CPE, CPE+, PC, TPU 95A, PVA, Breakaway; plus many third-party materials, including ASA and flame-retardant filaments for Defense applications
	Compatible print cores	AA+0.4 (included). Supports CC+, BB, and DD (sold separately). (Legacy AA and CC print cores work with pre-sliced print jobs)
	Nozzle temperature	Up to 340°C (644 °F) supported with the CC+ print cores
	Dimensional accuracy	±0.15 mm ±0.15% feature nominal length (Typical accuracy may vary by geometry, material, and machine)
	Build plate	Heated flexible PEI build plate (Up to 120 °C (248 °F))
	Build volume (XYZ)	330 × 240 × 300 mm (~13 × 9.4 × 11.8 in)
	Build volume temperature	Enclosed build volume < 50 °C (122 °F) open-loop temperature control
	Layer resolution	60 - 400 microns (depending on the print core nozzle size and print profile)
	Extrusion flow	Up to 35 mm³/s
	XY speed, acceleration, jerk	Up to 500 mm/s, up to 50,000 mm/s², up to 100,000,000 mm/s³
	Air Manager	Removes up to 95% of UFPs
	Material handling	Dual spool holder with NFC recognition
	Operating sound	< 50 dBA
	Display	Fast responsive color touchscreen
Physical dimensions	System on module	ARM cortex quadcore at 1.8 GHz
	Real-time controller	600 MHz Arm-cortex M7
	Connectivity (air-gapped)	LAN: Gigabit Ethernet. Optional: USB: 2.0
	Manufacturing details	Manufactured and electronics flashed in the EU
	Dimensions	495 × 585 × 800.5 mm (~19.5 × 23 × 31.5 in) (inc. spool holder)
Ambient conditions	Shipping dimensions	600 × 620 × 910 mm (~23.6 × 24.4 × 35.8 in)
	Net weight	30 kg (66 lbs)
	Shipping weight	39 kg (86 lbs)
	Operating temperature	15 °C - 32 °C (59 °F - 90 °F), 10 - 90 % RH non-condensing
Software	Non-operating temperature	0 °C - 32 °C (32 °F - 90 °F), 10 - 90 % RH non-condensing
	Print preparation	UltiMaker Cura 5.10 or newer, Cura Cloud (no installation required)
	Printer management	UltiMaker Digital Factory
	Supported OS	Windows, MacOS, Linux
Safety and compliance	Certifications/DoC's	CE, UKCA, FCC, cDEKRAus, Safe unattended use. For a complete overview see our S series safety and compliance page
	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.

