



# UltiMaker S8 Secure

USP25-SN, 61-237331-S

NNO: 3612171314219

## 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

<b>Printer and printing properties</b>	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
<b>Physical dimensions</b>	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
<b>Ambient conditions</b>	Dimensions	495 × 585 × 800.5 mm (~19.5 × 23 × 31.5 in) (inc. spool holder)
	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)
<b>Software</b>	Operating temperature	15 °C - 32 °C (59 °F - 90 °F), 10 - 90 % RH non-condensing
	Non-operating temperature	0 °C - 32 °C (32 °F - 90 °F), 10 - 90 % RH non-condensing
<b>Safety and compliance</b>	Print preparation	UltiMaker Cura 5.10 or newer, Cura Cloud (no installation required)
	Printer management	UltiMaker Digital Factory
	Supported OS	Windows, MacOS, Linux
<b>Safety and compliance</b>	Certifications/DoC's	CE, UKCA, FCC, cDEKRAus, Safe unattended use. For a complete overview see our S series <a href="#">safety and compliance page</a>
	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.

