UltiMaker Factor 4 Plus
Product data sheet



Industrial-grade hardware optimized for high-speed production.
An industrial-grade platform that delivers up to twice the speed of the standard Factor 4 while bringing robust, high- performance printing to continuous factory production for the manufacturing and defense industries

Built for 24/7 Industrial Cycles:
Downtime is not an option on the factory floor. The Factor 4 Plus features a new, field-proven gantry system specifically designed to absorb vibrations at high print speeds. This newly redesigned gantry ensures precision even when pushing the limits of throughput, maintaining strict quality standards during round-the-clock operation.

✓ **Maximum Throughput, Zero Compromise**
We engineered the Factor 4 Plus to move faster, up to two times as fast as the original Factor 4. Driven by the advanced Cheetah motion planner and fully compatible with our new AA+ and CC+ high-flow print cores.

✓ **Part-Level Confidence with UltiMaker TRACE (Technical Reporting And Certification Engine)**
Every part matters, and speed is only valuable if the output is validated. TRACE goes beyond basic monitoring. It continuously logs critical extrusion parameters, chamber temperatures, and dimensional accuracy throughout the entire print job.

✓ **High-Flow Extrusion**
Seamlessly integrate our new AA+ and CC+ high-flow print cores to push advanced polymers through the system faster than ever before.

The UltiMaker platform

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 3D Printers 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.

Sucess-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 Factor 4 Plus specifications

Technology	Fused deposition modeling (FDM)
Print head	Dual-extrusion, direct drive print head and swappable print cores
Print-core replacement	UltiMaker Quick-swap print cores
Build volume (XYZ)	330 x 240 x 300 mm (~ 13 x 9.4 x 11.8 in)
Layer resolution	60 - 400 µm (depending on the print core nozzle size and print profile)
Positioning resolution (XYZE)	6.25, 7.8, 2.5 microns
Extrusion flow	Up to 34 mm³/s
Build plate	Heated flexible PEI build plate up to 120°C (248°F)
Build-Volume Temperature	Up to 70°C Activly controlled to maintain a consistent nozzle plane temperature.
Nozzle temperature	up to 340°C (644°F)
Air Manager	Removes up to 95% of UFPs. Replaceable HEPA H13 filter
Compatible nozzle diameters	AA+ 0.4 mm, CC+0.6 (included) AA 0.25, 0.4, 0.8. BB 0.4, 0.8. CC 0.4, 0.6, DD0.4, HT 0.6 (sold separately)
Extrusion Flow	up to 34 mm³/s
XY Speed	up to 125mm/s
XY Acceleration	up to 30 000mm/s²
Material Handling	NFC recognition, integrated Material Handling
Filament diameter	2.85 mm
Monitoring	Full HD HDR camera
Connectivity	Wi-Fi (2.4GHz + 5GHz), LAN, USB port
Dimensions (with spool holder)	W 495 x D 585 x H 800 mm (W 19.5 x D 23 x H 31,5 in)
Net weight	120 kg (265 lbs)
Input shaping	Resonance frequency compensation for X Y and Z motion

Compatible accessories



Print core BB
Quick-swap nozzles for water-soluble support materials. Available in 0.4 and 0.8 mm



HEPA Filter
Independently tested to remove up to 95% of ultra-fine particles to increase air quality peace of mind.



PVA Removal Station
Remove water-soluble PVA support material up to 4X faster



Factor 4 Plus Cart
Anti-tilting architecture, lock in mechanisms to fix 3D printer to cabinet

Compatible materials

Easy to print
- UltiMaker PLA
- UltiMaker Tough PLA
- UltiMaker PETG

Mechanical strength
- UltiMaker ABS
- UltiMaker PC
- UltiMaker Nylon

Flexibles
- UltiMaker TPU 95A
- Tectonic-3D ANASA TPC 95A
- Tectonic-3D ANASA TPC L80A

Reinforced composites
- UltiMaker Nylon CF Slide
- UltiMaker PET CF
- UltiMaker PPS CF
- Tectonic-3D Zephyr PA11 CF MC

Heat resistance
- UltiMaker CPE+
- Tectonic-3D Vulcan PEKK-A
- Tectonic-3D Kratir PA6/66 CF

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Specifications subject to change. EN 04/2023 v2.00