

# UltiMaker Factor 4

An end-to-end application solution, UltiMaker Factor 4 is tailored for the development, production, and full-confidence deployment of process-critical tools and machine components. Factor 4 keeps operations running, simplifying processes in factories, and reducing human-triggered variabilities. It streamlines factory floor operations with its large effective build volume, direct dual material extrusion, and onboard print process reporting to achieve unrivaled predictability and minimal variance.



## UltiMaker Factor 4 specifications

<b>Printing properties</b>	Technology	Fused deposition modeling (FDM)
	Extrusion system	Dual-extrusion, direct drive print head with unique auto-nozzle lifting system and swappable print cores
	Build volume	Single material printing: 330 x 240 x 300 mm (13 x 9.4 x 11.8 in) Dual material printing: 330 x 240 x 300 mm (13 x 9.4 x 11.8 in)
	Filament diameter	2.85 mm
	Print profiles availability	14+ UltiMaker materials 250+ UltiMaker Marketplace materials
	Dimensional accuracy	± 0.2 mm ± 0.2% feature nominal length For detailed conditions visit <a href="https://ultimaker.com/factor4">ultimaker.com/factor4</a>
	<b>Hardware properties</b>	XYZ resolution
Homing sensor		Optical
Build plate		PEI-coated flexible build plate
Build plate temperature		Up to 120 °C (248 °F)
Build volume temperature		Actively controlled up to 70 °C (158 °F) with nozzle plane temperature uniformity within: ± 3 °C (5.4 °F) for temperatures < 50 °C (122 °F) ± 5 °C (9 °F) for temperatures < 70 °C (158 °F)
Extrusion flow		Closed loop flow compensation
Max. extrusion temperature		280 °C (536 °F): Print core AA, BB, DD 300 °C (572 °F): Print core CC 340 °C (644 °F): Print core HT
Closed loop fans		Air filtering fan, air recirculation fans, print cooling fans, print core cooling fan
Compatible print cores		Print core AA (0.25 mm, 0.4 mm, 0.8 mm) Print core BB (0.4 mm, 0.8 mm) Print core CC (0.4 mm, 0.6 mm) Print core DD (0.4 mm) – available in selected regions Print core HT (0.6 mm)
Material handling system capacity		6 bays with NFC recognition (max. 1 kg spool size)
Material handling system humidity control		Average relative humidity < 15 % in all operational conditions
Microparticulate filtration system		HEPA H13
Emission rate (UFP & VOC)		UltiMaker filaments below limits listed in UL-2904
Monitoring		HDR (high dynamic range) 1920 x 1080 px HD camera
Display		7-inch touchscreen (resolution 1024 x 600 px)

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	Connectivity	Wi-Fi 2.4 & 5GHz: IEEE 802.11a/b/g/n/ac LAN: Gigabit Ethernet USB: 2.0
	System on module	NXP i.MX8 Mini Quad (4x1.8GHz), ARM Cortex-A53, 2GB LPDDR4 16GB eMMC
	Real time controller	i.MX RT1064, Arm Cortex-M7 600MHz, 1MB SRAM
	Power requirement	100–240V AC, 50–60Hz max., 6A
<b>Physical dimensions</b>	Dimensions	695x605x1287mm (27.5x24x51in)
	Weight	120kg (265lbs)
	Shipping dimensions	760x800x1587mm (30x31.5x62.5in)
	Shipping weight	137kg (309lbs)
<b>Ambient conditions</b>	Operating sound	< 50 dBA in operation
	Operating environment	Operating: Temperature: 18°C – 30°C (64–86°F), humidity: 30–70% RH Storage: Temperature: 5°C – 40°C (41–104°F), humidity: 20–90% RH
<b>Software</b>	Print job preparation	UltiMaker Cura 5.7.1 or newer
	Print job management	UltiMaker Digital Factory
	File types supported	UltiMaker Cura: STL, OBJ, 3MF Printable formats: G, GCODE, UFP, STEP
	System requirement	Windows 7 (64-bit) Mac OS X 10.12 OpenGL 2.1 4GB RAM (8GB recommended)
	Print process reporting	Supported
	Security	Active firewall PIN code settings protection
<b>Safety &amp; compliance</b>	Warranty period	12 months limited warranty
	Certifications	For a detailed list of certifications visit <a href="https://ultimaker.com/factor4">ultimaker.com/factor4</a>
	Safety features	Red stop button immediately stops motion and heat sources Open door sensor pauses motion and extrusion

## What does our unique platform include?



3D printers that achieve fast ROI



Click and print with over 310 materials



Secure cloud software for easy remote printing



Global access to expert support and learning

Specifications subject to change EN 03/2024 v1.00

