UltiMaker S7
Product data sheet

Best-in-class reliability

We took everything our users loved about the award winning UltiMaker S5, and we made it even better. The UltiMaker S7 can be trusted to do its job, giving you the freedom to do yours. The inductive sensor-enabled bed leveling of the S7 ensures a perfect first layer and the integrated air manager maintains the build volume at an optimally regulated temperature. Additionally, run-out and fan bracket sensors will pause your print and notify you if you run out of filament or if there is a clog that causes your print head to flood.

Ultimate connectivity

The UltiMaker S7 is your gateway to the entire UltiMaker platform. Access all the tools you need to start 3D printing – Manage and monitor your prints securely with the UltiMaker Digital Factory, improve your 3D printing knowledge with e-learning courses on the UltiMaker Academy, and choose from hundreds of materials and plugins using the UltiMaker Marketplace.

- ✓ **Easy setup and monitoring:** Start printing quickly with a simple first-time user experience. Including NFC material recognition and a high-resolution internal camera
- ✓ **Access to the UltiMaker platform:** Seamless integration with the extensive UltiMaker platform. Including software, materials, and hardware
- ✓ **Environmental control:** The integrated air manager filters out up to 95% of UFPs while also keeping the build chamber temperature carefully regulated
- ✓ **Advanced active leveling:** Reliable first-layer adhesion enables unattended use without manual leveling
- ✓ **Wide material choice:** Use almost any material with our open filament system, including composites
- ✓ **Large build volume:** Scale up with bigger parts or batch production
- ✓ **Network connectivity:** Print via Wi-Fi, LAN, cloud, or USB
- ✓ **UltiMaker Essentials:** Access to security-assessed software – with remote printing, user management, and e-learning
- ✓ **Flexible build plate:** The PEI-coated build plate makes for reliable print adhesion and removal. A sensor also assures your build plate will always be in place before printing

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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 ready for Industry 4.0

Trusted by millions of users across 14 languages, UltiMaker Cura integrates with any workflow through UltiMaker Marketplace plugins. Then scale production and digital distribution with UltiMaker Digital Factory.

Material choice like never before

UltiMaker 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.

Support dedicated to your success

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.
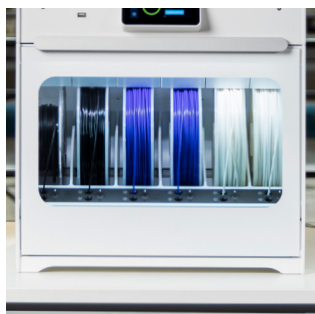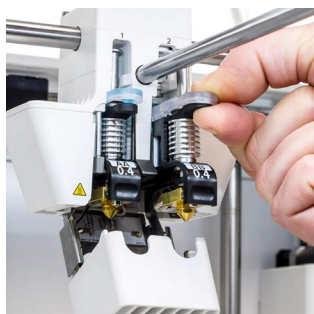
UltiMaker

UltiMaker S7 specifications

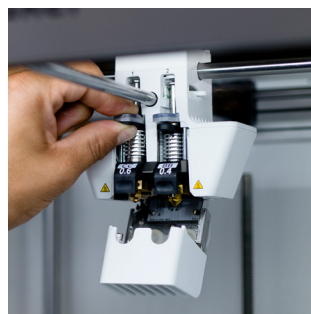| Printer and printing properties	Technology	Fused filament fabrication (FFF)
	Print head	Dual extrusion print head with auto-nozzle lifting system and swappable print cores
	Build volume (XYZ)	330 x 240 x 300 mm (13 x 9.4 x 11.8 in)
	Layer resolution	0.25 mm nozzle: 150 - 60 micron 0.4 mm nozzle: 200 - 20 micron 0.6 mm nozzle: 300 - 20 micron 0.8 mm nozzle: 600 - 20 micron
	XYZ resolution	6.9, 6.9, 2.5 micron
	Build speed	< 24 mm³/s
	Build plate	PEI coated flexible build plate (20 - 140 °C)
	Air manager	EPA filter - Independently tested according to UL2904 (Standard Method for Testing and Assessing Particle and Chemical Emissions from 3D Printers) with UltiMaker materials and corresponding Cura print profiles.
	Nozzle diameter	0.4 mm (included) 0.25 mm, 0.6 mm, 0.8 mm (sold separately)
	Operating sound	< 50 dBA
	Connectivity	Wi-Fi (2.4GHz + 5GHz), LAN, USB port
Physical dimensions	Dimensions (with spool holder)	495 x 585 x 780 mm (19.5 x 23 x 30.7 in)
	Net weight	29.1 kg (64.2 lbs)
Software	Free supplied software	UltiMaker Personal (for individuals – includes UltiMaker Cura) UltiMaker Essentials (for organizations – includes UltiMaker Cura Enterprise) Find our full range of enterprise plans at ultimaker.com/software
	Supported OS	MacOS, Windows, and Linux
Warranty	Warranty period	12 months

Compatible accessories

Material Station
Simplify and automate material handling

Print core BB
Quick-swap nozzles for build and water-soluble support materials. Available in 0.25, 0.4, and 0.8 mm

Print core CC
Ruby-tipped for printing abrasive glass and carbon fiber composites. Available in 0.4 and 0.6 mm

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

Compatible materials

Unlock a wide range of applications with complete material choice. Use UltiMaker materials, any third-party filament, or access material profiles from leading brands. Choose from these materials and more.

Easy to print
• UltiMaker PLA
• UltiMaker Tough PLA
• UltiMaker PETG

Mechanical strength
• UltiMaker ABS
• UltiMaker PC
• UltiMaker CPE

Wear resistance
• UltiMaker Nylon
• UltiMaker PP
• Igus iglidur® I150

Heat resistance
• UltiMaker CPE+
• Lehvoss LUVOCOM 3F PAHT® 9825 NT
• Lehvoss LUVOCOM 3F PAHT 9826 NT

Flexibility
• UltiMaker TPU 95A
• Estane® 3D TPU F94A

EDS safe
• Kimya ABS ESD
• Jabil PET G 0800 ESD

Flame retardant
• Ensinger PC FR Natural
• Covestro Addigy® F1030 FR

Reinforced composites
• BASF Forward AM XSTRAND™ GF30-PA6
• Covestro Addigy® F1030 FR

Support
• UltiMaker PVA
• UltiMaker Breakaway
• AquaSys ® 120

UltiMaker

Ultimaker
Metal Expansion Kit

Take advantage of a new range of metal 3D printing applications by upgrading the Ultimaker S5 with the Metal Expansion Kit. Its seamless workflow makes creating stainless steel parts easier, more efficient, and affordable.

How it works

1. Print with BASF Forward AM Ultrafuse® 17-4 PH stainless steel filament[1] to create a "green part"

2. Send your green part for post-processing by BASF's network of certified debinding and sintering services

3. Track debinding and sintering progress via an online portal, and receive your part back in 10 business days

4. Put your finished metal part to use – from small series of tools to auxiliary components

What's included

- ✓ BASF Forward AM Ultrafuse® 17-4 PH (1 kg)
- ✓ Packaging for green parts and voucher for post-processing
- ✓ Ultimaker Print Core CC 0.4
- ✓ Magigoo Pro Metal (50 ml) adhesive
- ✓ Free Ultimaker Cura software with optimized metal part slicing features
- ✓ Access to exclusive metal FFF e-learning content on Ultimaker Academy

Why choose the Metal Expansion Kit?

An end-to-end metal 3D printing workflow
The Ultimaker Metal Expansion Kit provides access to software optimizations, post-processing services, and extensive e-learning modules.

No hardware modifications needed
To 3D print metal on the Ultimaker S5, simply swap out the print cores, load the NFC-equipped metal filament, and start your print.

Metal parts. Up to 90% cheaper
Comparing the Ultimaker S5 and Metal Expansion Kit to CNC and other additive methods, you can save up to 90% creating the metal tools and parts you need.

Plastic or metal? You decide
3D print either plastic or metal depending on your needs. Simply swap materials and change out the print cores, for more versatility and potential applications.

1. Use of the Air Manager is strongly recommended when printing with BASF Forward AM Ultrafuse® 17-4 PH material

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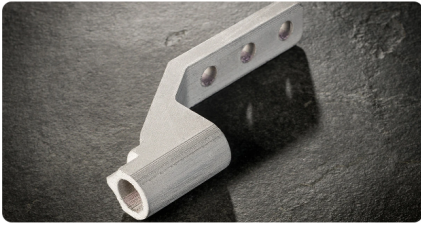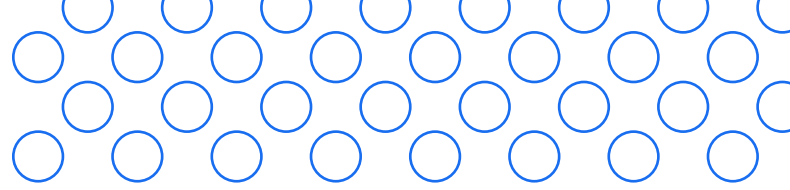
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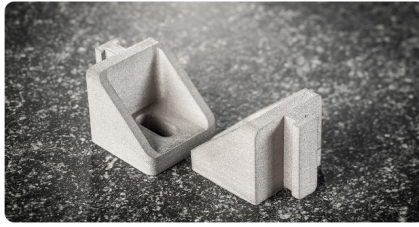
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BASF We create chemistry | FORWARD AM | Ultimaker
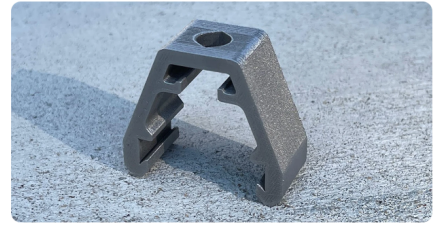
Engine bracket

Liebherr Components Colmar SAS

MFFF reduced the mass of Liebherr's original bracket by nearly 60%, while providing 3x the load-bearing capacity for added safety.

Paddle fan mount

Schwartz Off Road Motorsportz

When carbon reinforced nylon wasn't enough, this innovative racing team turned to low-cost MFFF – with winning results.

Solar panel bracket

Sparox 3D and Wien Energy

3D printing stainless steel to replace aluminum resulted in a more weather resistant part and thousands of Euros saved.

Gear shift lever

Kawasaki Motors Corp., USA

A more cost-effective and easily customized part 3D printed with stainless steel – with the added benefit of "fuzzy skin"

Welding fixture

Hoedtke 3D Additive

Replacing plastic injection molded parts with metal for a huge cost saving in avoided machine modifications.