

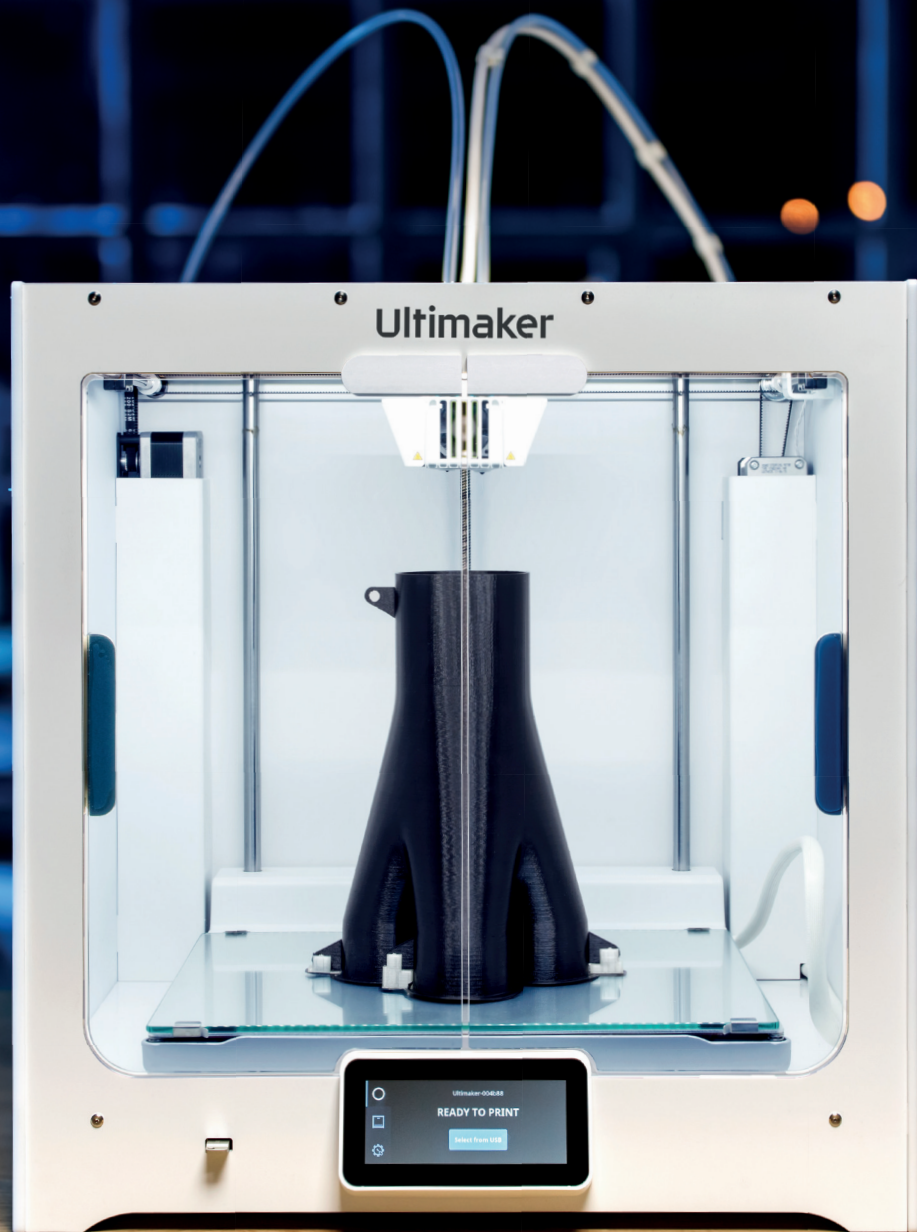
# Take control of your production workflow

Discover our open and integrated  
solution of 3D printers, software,  
and materials inside

Save time  
and money  
with in-house  
3D printing

Ultimaker





# Ultimaker is a success system

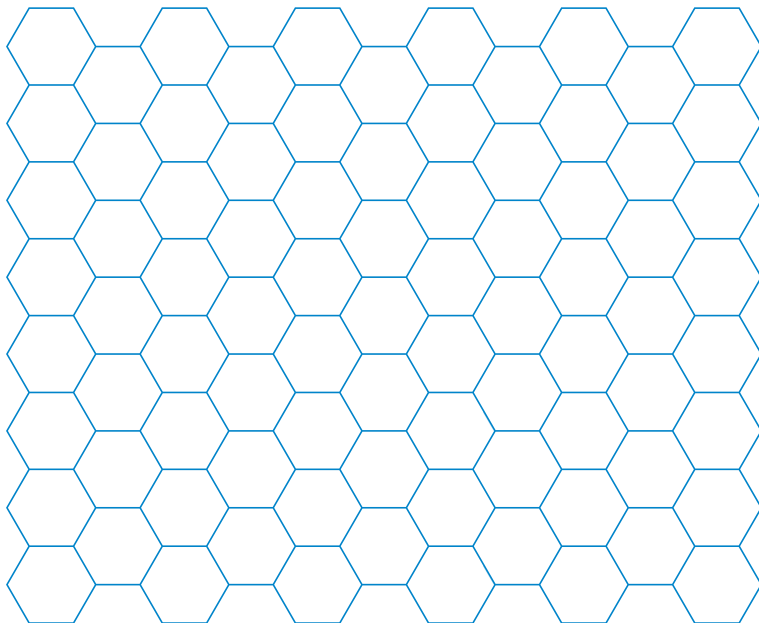
## Are you in full control of your production workflow?

If not, turning your ideas into parts and models is costing too much time and money.

Ultimaker is an entire 3D printing system that's designed to drive in-house progress and innovation.

Flexible and easy-to-use, our market-leading products integrate seamlessly with your production process, empowering you to take back control of your workflow from start to finish:

- Reliable, award-winning 3D printers
- Open source, cloud-enabled software
- The widest material choice in the industry
- Global customer service and support



Learn more at [ultimaker.com](https://ultimaker.com)



# Unlock more applications

Our hassle-free 3D printing system gives you the freedom to print with your choice of materials

## Product development

It's a never-ending race to bring new products to market. But go too fast and you risk missing customer needs. Take too long and a competitor gets ahead. With reliable in-house 3D printing, designers and engineers no longer face this dilemma. Ultimaker 3D printers shorten development cycles, enabling deeper iteration at a lower cost, so you can go to market with confidence.



*PLA propeller prototypes used by Sylatech for investment casting metal*

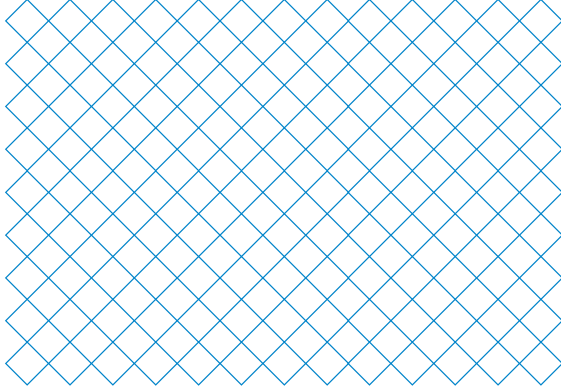


*Ford saved costs and time by 3D printing tools and jigs for the new Focus*

## Manufacturing aids

We often outsource custom tools, jigs, and fixtures for the production line. But this has a number of drawbacks. High materials costs, long lead times, and you have to store all the parts you ordered. With Ultimaker 3D printers on or near the production line, you can have parts on demand, for a fraction of the material cost, and can iterate as and when you need.





## End-use parts

With 3D printing, businesses can start building durable, low-volume, customized parts with no tooling cost and next-to-no lead time.

With a wide range of materials, finishes, and a level of accuracy that rivals injection molding, on-demand production can be tailored to your needs, while avoiding costly mass-production.



*3D printed end-use parts like these headphones are fully customizable*

## Architecture

From evaluating early concepts to impressing a client and winning business, 3D models are central to how architects design and communicate. Using an Ultimaker 3D printer in-house can shrink model-making times from months to days, and even print complex geometries that couldn't be made any other way.

## Education

Ultimaker is committed to bringing 3D printing to the classroom, fostering student engagement, and developing 21st-century skills that empower the innovators of the future.

Our products and solutions encourage students to address real-world problems, regardless of their grade level.

# Simply powerful desktop 3D printers

## Meet the Ultimaker S-line

Built to run continuously and maximize uptime, Ultimaker S-line 3D printers combine dual extrusion, advanced connectivity, an open filament system, and an intuitive UI. They enable easy-to-use 3D printing for even more applications – from rapid prototyping to on-demand tooling and end-use parts in the office and workshop.

### Award-winning, intuitive control

Winner of a 2019 iF Design Award, the touchscreen interface simplifies every action using the Ultimaker S-line. Step-by-step setup, navigation, and maintenance remove the need for training and deliver a hassle-free 3D printing experience.



### 100% composite-ready

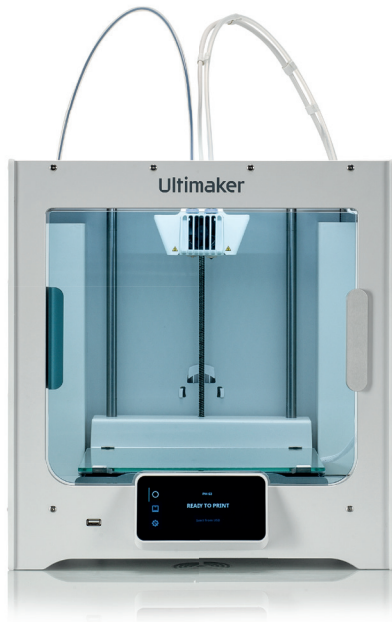
Thanks to our pioneering alliance with global material companies, Ultimaker S3 and S5 can print with the world's most advanced filaments, including glass and carbon-fiber composites. All you need is print core CC Red to unlock high-end applications with abrasive materials.

### First-layer adhesion – perfected

Before every print, Ultimaker S-line 3D printers automatically scan the build plate print area. They then correct any microscopic Z-height offset to ensure a perfect first layer.

### No more filament? No more worries

Dual filament flow sensors pause your print and notify you if you run out of material. This avoids waste and guarantees a higher print success rate.



## Ultimaker S3 **NEW**

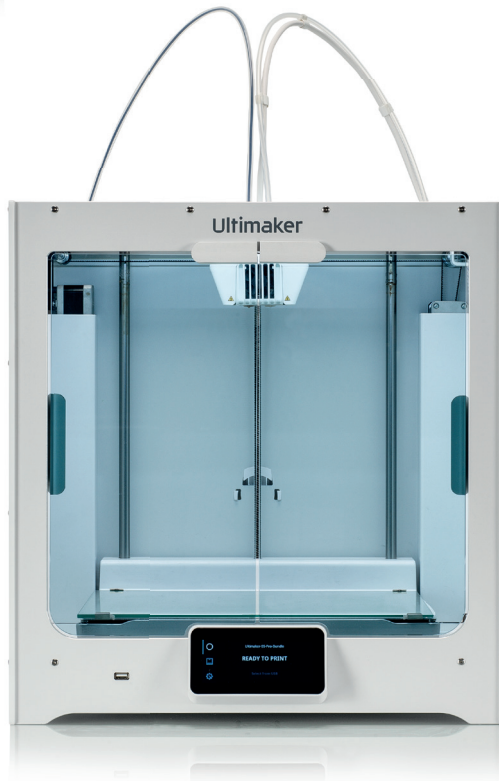
### Disruptive 3D printing starts here

The Ultimaker S3 delivers high-quality, composite-ready performance – in an efficiently small footprint. Packed with our latest technology, the Ultimaker S3 is as easy-to-use as it is powerful, offering the most cost-effective way for disruptive businesses to adopt in-house 3D printing.

## Ultimaker S5

### Scale up your ambition

The large build volume of the Ultimaker S5 not only lets you print bigger models – it allows you to put multiple parts on a single build plate. Meet demand, maximize efficiency, and enjoy air quality peace of mind by combining the Ultimaker S5 with its Material Station and Air Manager.





# Ultimaker S5 Pro Bundle

Upgrade to 24/7 productivity

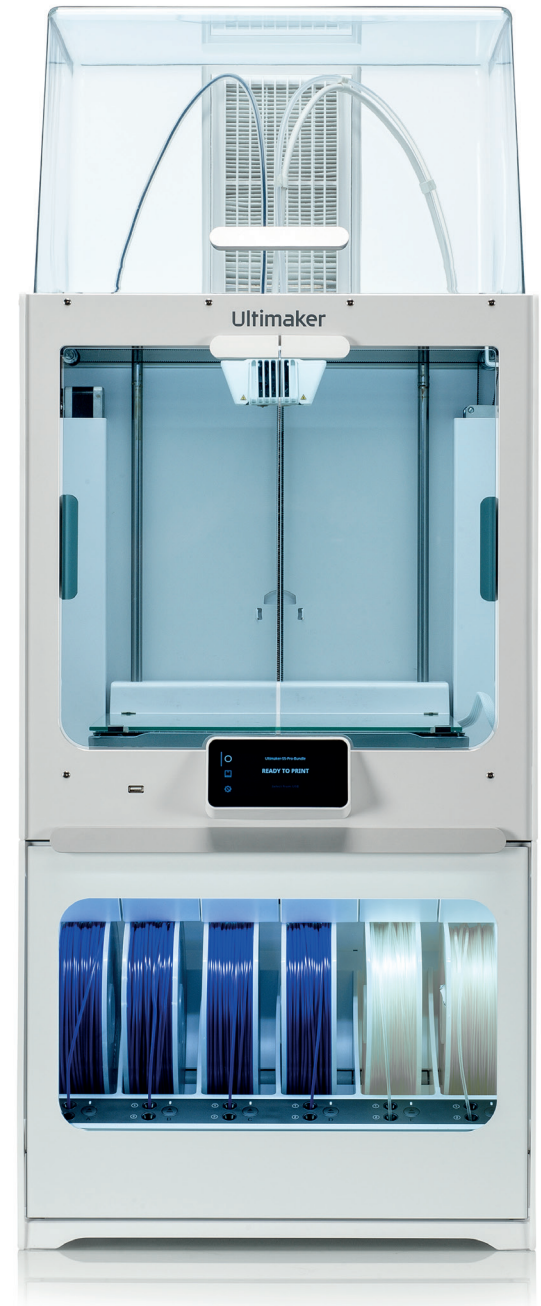
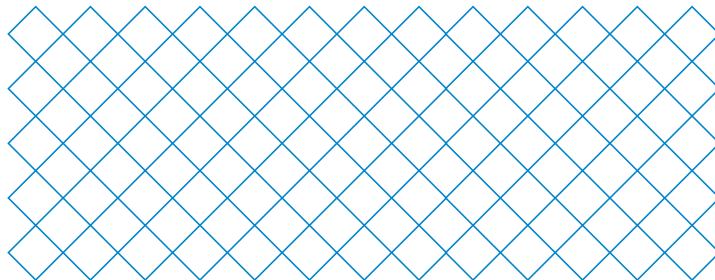
## Air Manager **NEW**

The Ultimaker S5 Air Manager provides a closed, inside-out airflow throughout the printing process. This leads to a better-controlled environment inside the build chamber and filters up to 95% of ultrafine particles created while printing. The result? A safer work environment and peace of mind when printing with a wider range of materials with an Ultimaker S5.

## Material Station **NEW**

Seamlessly integrating with the Ultimaker S5, the Material Station redefines filament storage and delivery, unlocking truly 24/7 dual extrusion.

Inside the humidity-controlled chamber, six material spools can be loaded in any order with up to 4.5 kg of material. Each bay features automatic material switching, composite-ready feeder wheels, and filament flow sensors. Now you can achieve increased productivity, easier operation, and higher-quality production.



# Ultimaker 2+ series

## The benchmark for single extrusion

Affordable, reliable, and user-friendly, the Ultimaker 2+ and Ultimaker 2+ Extended are suitable for rapid prototyping and concept models. Both feature swappable nozzles, a heated glass build plate, and an open filament system.

## Engineered to perform

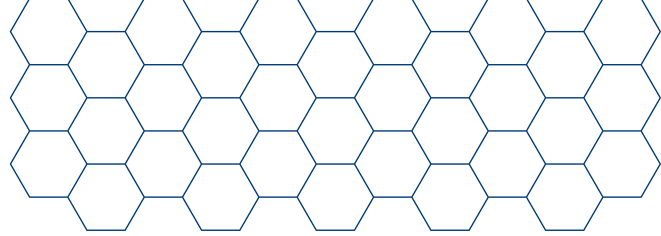
Designed by experts and enriched by our global community, Ultimaker 2+ performs even complex 3D printing tasks with ease. It's particularly effective at printing bridging, overhangs, and accurate details. This enables you to create high-quality results, tailored to your business.

## Loved around the world

Ultimaker 2+ has received numerous industry awards – including 3D Hubs, Make Magazine, and Digital Trends. Engineering.com has described it as: “A reliable, high-resolution prototyping machine fit for engineers, designers, educators, and students”.



Learn more at [ultimaker.com](https://ultimaker.com)

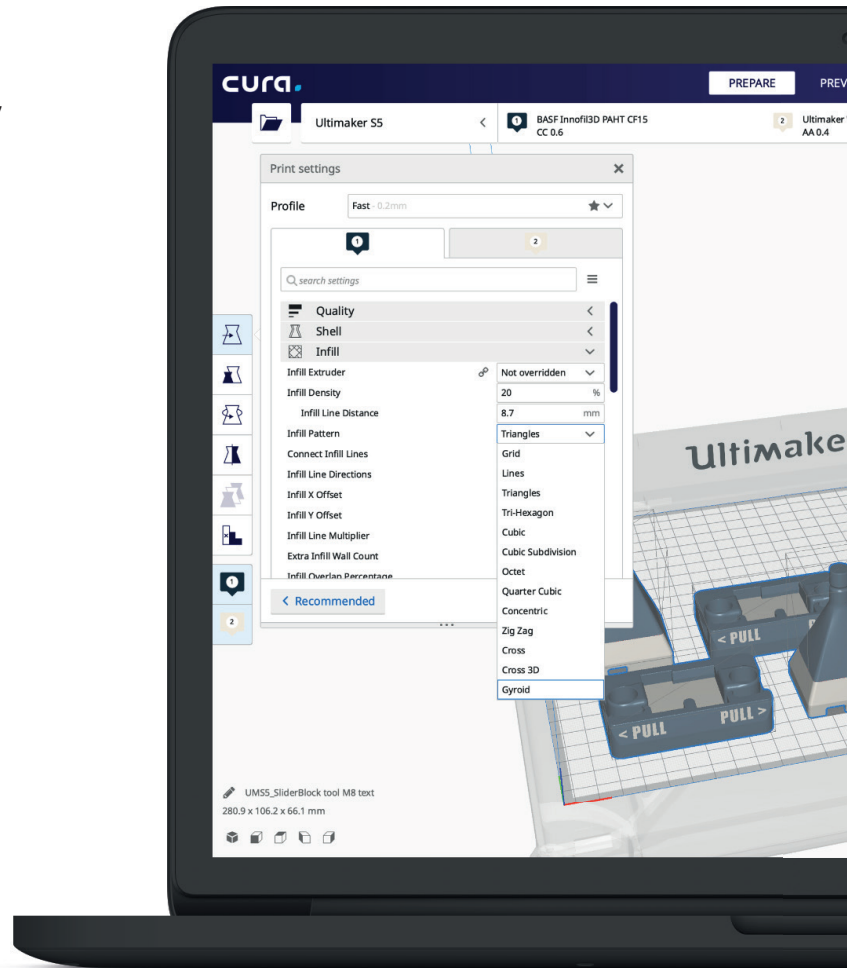


# The world's best slicing software

Ultimaker Cura is at the heart of millions of 3D printing workflows worldwide. Free to download and supporting 14 languages, this powerful software prepares your print in seconds. In 2019, it won Best Software Tool in the 3D Printing Industry Awards.

## Start printing in a couple of clicks

Import your 3D file and in seconds Ultimaker Cura analyzes it, slices your design into layers, and translates it into instructions for your 3D printer. If you're happy with the customizable preview of your print, you can then save to USB or send the job via Wi-Fi or LAN to Ultimaker 3D printers.

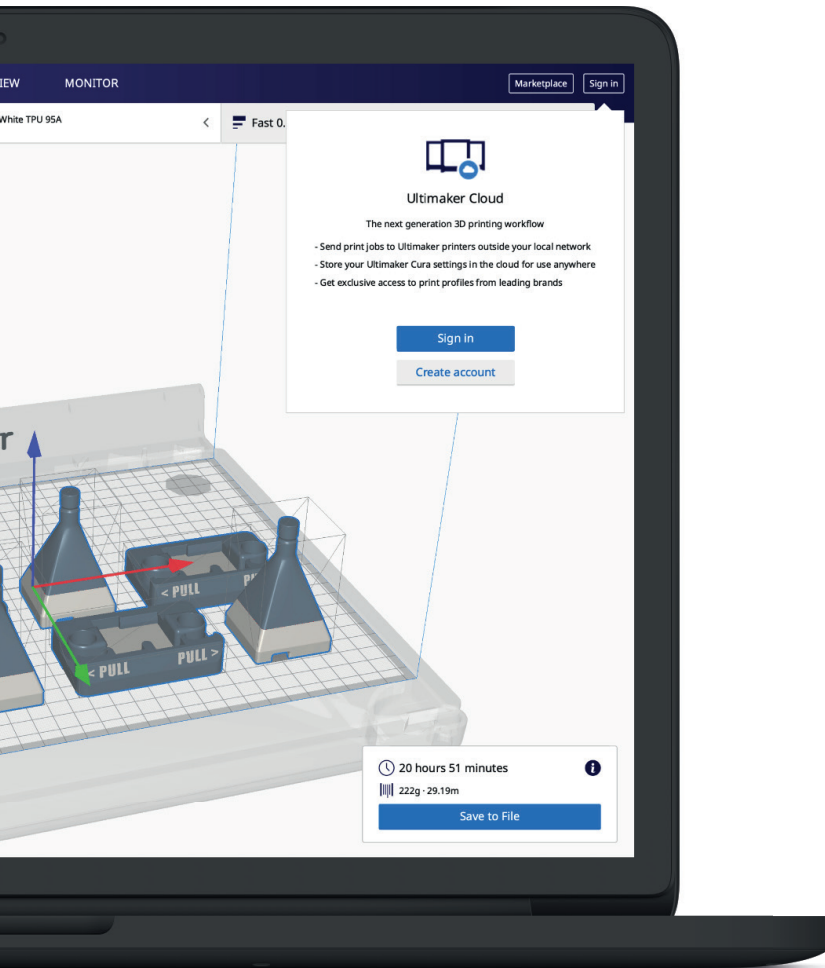






# 3D Printing Industry

## Awards 2019



### The perfect strategy for every layer

Our preconfigured profiles have been tested for thousands of hours, so you can reliably achieve the perfect print. If any parameter needs adjusting, you have granular control over 400 settings – from infill shape to infill density. You can even pause the print to embed off-the-shelf parts.

### Seamless CAD integration: check

Optimize your 3D printing workflow with optional plugins for Ultimaker Cura. Download plugins for integration with leading software packages, including SolidWorks, Siemens NX, and Autodesk Inventor. Or develop one that is tailored to streamline your workflow even more.

# Endlessly scalable printer management

With Ultimaker Connect, manage one or multiple Ultimaker 3D printers, queue print jobs, schedule maintenance tasks, and track print analytics – all from your workstation. Now you can maximize ROI by maximizing the efficiency of your 3D printing hardware.

## Streamline your workflow

Group one or more Ultimaker S-line 3D printers and start adding print jobs to the queue. Ultimaker Connect automatically finds the next-available machine and, if necessary, prompts you to change material or print cores. You can easily monitor, reorder, and duplicate any print job.

## Optimize your efficiency

With in-depth analytics, you can push the performance and uptime of your Ultimaker 3D printers to the next level. Find trends in printer configuration and material usage so you can optimize your setup, reduce print job queue times, and even forecast your next material order.



# Cloud-enabled 3D printing

Ultimaker Cloud enables the next-generation of 3D printing workflow, for joined-up digital distribution and local manufacturing. This growing platform gives you the freedom to remotely send and manage print jobs from any workstation in the world to any Ultimaker 3D printer on your network.

With new features being continually added, Ultimaker Cloud includes:



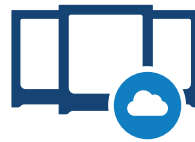
## Ultimaker Marketplace

Download tested print settings for materials made by global-leading brands, like DuPont, BASF, DSM, and many more.



## Backups

Conveniently retrieve your Ultimaker Cura settings for use anywhere, on any computer.



## Remote printing

Send print jobs to network-enabled Ultimaker printers from anywhere and stay informed of print progress.



## Teams **NEW**

User management and collaboration is now easy. Create a team. Then invite other Ultimaker account users to join.



# The widest material choice on the market

The ability to choose almost any 3D printing filament means your application opportunities become endless. Ultimaker's first-party material portfolio provides a rigorously tested range of 11 materials. And each Ultimaker 3D printer features an open filament system, which allows you to use any third-party filament.

## But that's not all...

We've combined our material expertise with over 80 leading brands to create the Ultimaker Material Alliance. A pioneering initiative that aligns sophisticated filament portfolios with Ultimaker's easy-to-use 3D printing system.

Simply choose the filament your application needs, download its print settings from Ultimaker Cura Marketplace, and start printing – knowing that those settings have already been thoroughly tested on Ultimaker machines.



## Visual quality

Fit and finish, look and feel. Aesthetics matter when prototyping design concepts or making architectural models. These materials are dimensionally stable and easy to print:

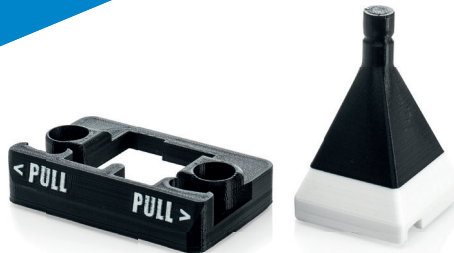
- Ultimaker PLA
- Ultimaker Tough PLA
- ColorFabb woodfill PLA

## Reinforced composites

Polymers reinforced with up to 30% abrasive material offer an affordable way to create high-strength, light-weight parts in-house.

Example materials include:

- Owens Corning XSTRAND™ GF30-PA6
- DSM Novamid® ID1030 CF10
- DuPont™ Zytel® 3D10CF20FL BK010





## Flexibility

Materials with rubber-like properties create unique opportunities with additive manufacturing. Print anything from air-tight dust covers to wear-resistant robot grippers with:

- Ultimaker TPU 95A
- DuPont™ Hytrel® 3D4100FL
- DSM Arnitel® ID2045 TPC

## Wear resistance

Highly wear-resistant polymers are ideal for applications that demand a low-friction coefficient. These self-lubricating polymers can increase components' service life, while reducing maintenance:

- Ultimaker Nylon
- Igus Iglidur I150
- Igus Iglidur I180



Get predefined settings from these brands and more via Ultimaker Marketplace:



## Heat resistance

Under-the-hood applications like engine shields, covers, and gaskets benefit from heat-resistant and flame-retardant polymers that resist high temperatures for multiple hours, including:

- DSM Arnitel ID 2060 HT
- Clariant PA6/66 GF 20 FR
- Smart materials 3D ABS Fireproof



## Chemical resistance

Many polymers have excellent chemical or corrosion resistance built in. Custom automotive, janitorial, or oil-and-gas applications can be unlocked by 3D printing with:

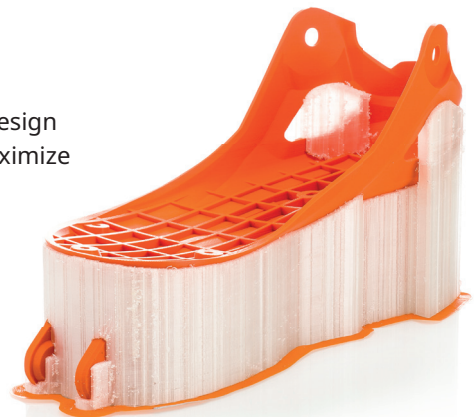
- Ultimaker CPE
- Arkema FluorX
- DuPont Zytel® 3D12G30FL BK309



## Support

Water-soluble or easily removable support materials give you full design freedom to 3D print complex geometries or orient your print to maximize strength. Ideal support options include:

- Ultimaker PVA
- Ultimaker Breakaway



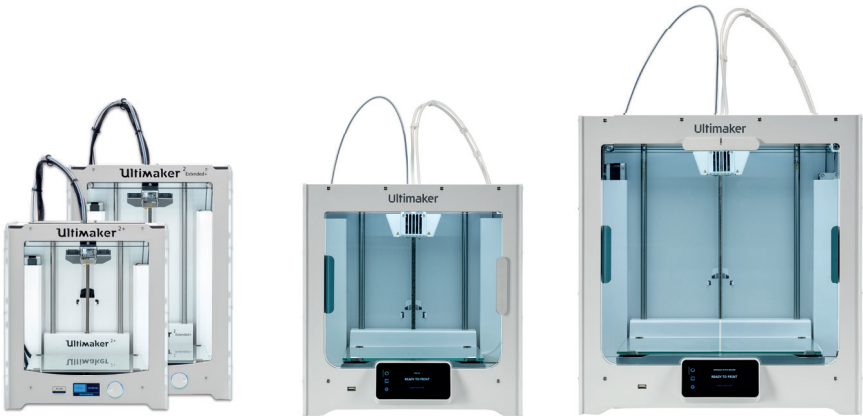


# Material compatibility

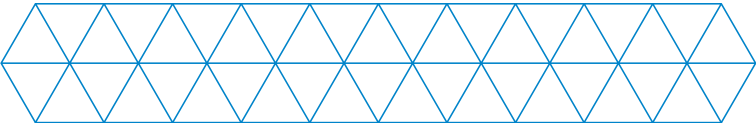
	Ultimaker 2+ series	Ultimaker S3	Ultimaker S5
Ultimaker PLA	✓	✓	✓
Ultimaker Tough PLA	ⓘ	✓	✓
Ultimaker ABS	✓	✓	✓
Ultimaker Nylon	✓	✓	✓
Ultimaker CPE	✓	✓	✓
Ultimaker CPE+	✓	✓	✓
Ultimaker PC	✓	✓	✓
Ultimaker PP	✓	✓	✓
Ultimaker TPU 95A	✓	✓	✓
Ultimaker PVA	ⓘ	✓	✓
Ultimaker Breakaway	✗	✓	✓
Open filament system	✓	✓	✓
Ultimaker Marketplace profiles	✗	✓	✓
Composite materials*	✗	✓	✓
✓ Officially supported	ⓘ Experimental	✗ Not supported	*Requires print core CC Red 0.6

# Compatible accessories

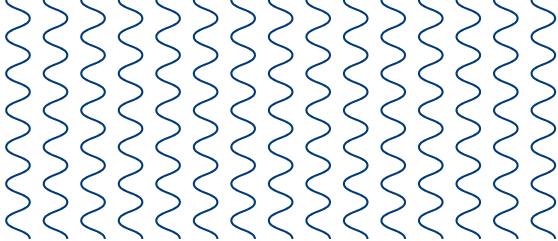
Each Ultimaker 3D printer ships with all the parts needed to perform the majority of printing tasks. But with the accessories below, it's easy to maintain your Ultimaker printer, or to upgrade your experience by dramatically boosting its material handling performance.



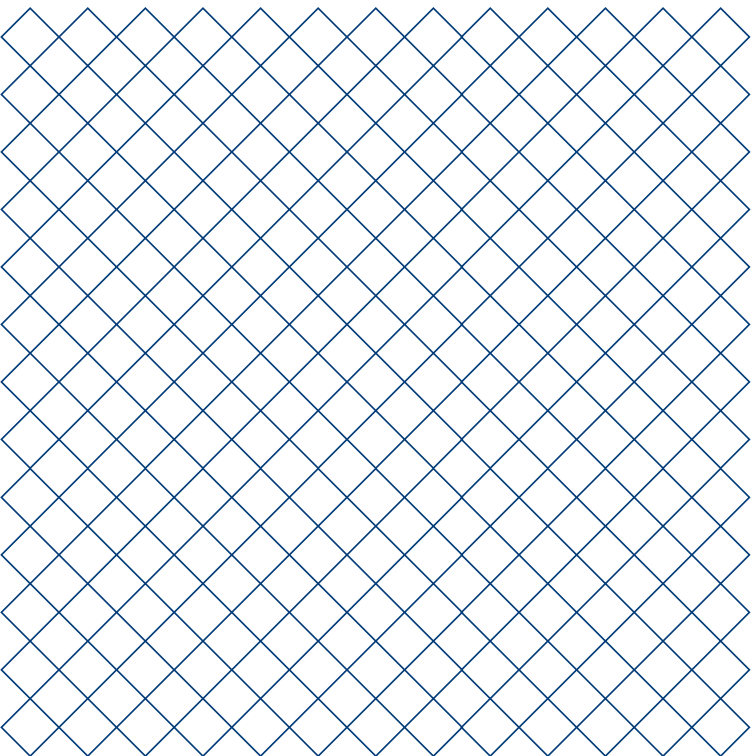
	Ultimaker 2+ series	Ultimaker S3	Ultimaker S5
Nozzle packs	✓	N/A	N/A
Advanced 3D printing kit	✓	N/A	N/A
Cleaning filament	✓	✓	✓
Adhesion sheets	✓	✓	✓
Print cores AA and BB		✓	✓
Print core CC Red 0.6		✓	✓
Ultimaker S5 Air Manager			✓
Ultimaker S5 Material Station			✓



# Specifications comparison



	Ultimaker 2+	Ultimaker S3	Ultimaker S5
Technology	Fused filament fabrication (FFF)	Fused filament fabrication (FFF)	Fused filament fabrication (FFF)
Print head	Single extrusion with swappable nozzles	Dual extrusion with swappable print cores	Dual extrusion with swappable print cores
Build volume (XYZ)	223 x 223 x 205 mm (8.8 x 8.8 x 8.1 inches)	230 x 190 x 200 mm (9.1 x 7.4 x 7.9 inches)	330 x 240 x 300 mm (13 x 9.4 x 11.8 inches)
Min. layer resolution	Down to 20 micron	Down to 20 micron	Down to 20 micron
Accuracy (XYZ)	12.5, 12.5, 5 micron	6.9, 6.9, 2.5 micron	6.9, 6.9, 2.5 micron
Build speed	< 24 mm³/s	< 24 mm³/s	< 24 mm³/s
Build plate temperature	20 – 100 °C	20 – 140 °C	20 – 140 °C
Nozzle diameter	0.25, 0.4, 0.6, 0.8 mm	0.25, 0.4, 0.6, 0.8 mm	0.25, 0.4, 0.6, 0.8 mm
Operating sound	50 dBA	< 50 dBA	< 50 dBA
Max. power output	221 W	350 W	500 W
Connectivity	SD card (included)	Wi-Fi, LAN, USB port	Wi-Fi, LAN, USB port
Assembled dimensions	342 x 493 x 588 mm (13.5 x 19.4 x 23.1 inches)	394 x 489 x 637 mm (15.5 x 19.3 x 25.1 inches)	495 x 585 x 780 mm (19.5 x 23 x 30.7 inches)
Net weight	11.3 kg (24.9 lbs)	14.4 kg (31.7 lbs)	20.6 kg (45.4 lbs)
Supported OS	Windows, MacOS, Linux	Windows, MacOS, Linux	Windows, MacOS, Linux
Warranty period	12 months	12 months	12 months
Free supplied software	Ultimaker Cura Ultimaker Cloud	Ultimaker Cura Ultimaker Connect Ultimaker Cloud	Ultimaker Cura Ultimaker Connect Ultimaker Cloud



Request a quote

Your local Ultimaker reseller:



Trideus  
Truibroek 65  
3945 Ham  
Belgium  
[info@trideus.be](mailto:info@trideus.be)

More info at:  
[trideus.be/ultimaker](https://trideus.be/ultimaker)

