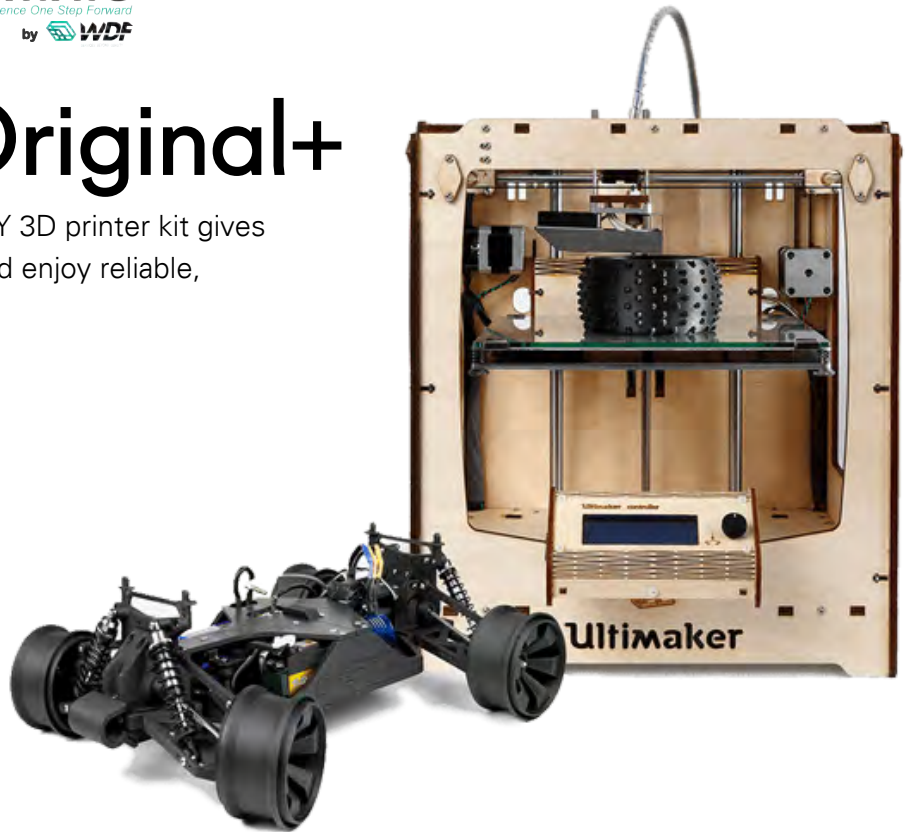


# Ultimaker Original+

Hackable without limits, our original DIY 3D printer kit gives you endless freedom to experiment and enjoy reliable, accurate and consistent results.

[View detailed specifications](#)

[Ultimaker Original+ user manual](#)



## Key specifications

### Build volume

Ultimaker Original

210 x 210 x 205 mm

Ultimaker Original+

210 x 210 x 205 mm

What's build volume?

### Materials

Ultimaker Original

PLA

Ultimaker Original+

PLA, ABS, CPE

What's an open filament system?

### Layer resolution

From:

200 micron

Up to:

20 micron

What's a micron?

### Speed

Build speed:

Up to 8 mm<sup>3</sup>/s

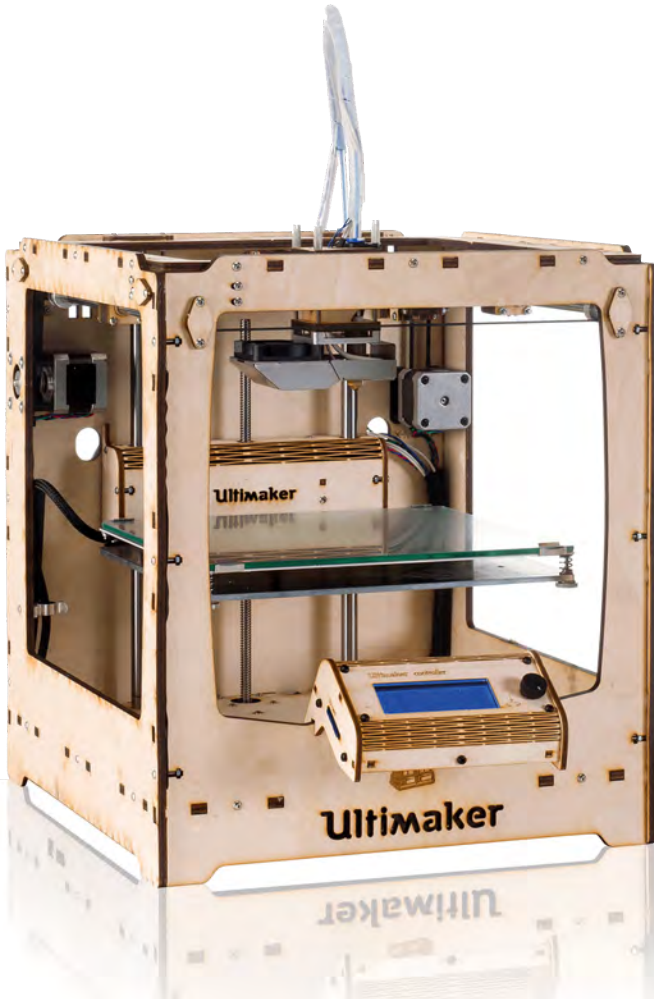
Travel speed:

Up to 300 mm/s

## Infinite wonders

Whatever the complexity, the Ultimaker Original+ faithfully recreates your vision. The print head is so light it can print at unmatched speeds whilst never losing any of its 20 micron resolution. Its ingenious heated build plate not only prevents warping on your model, but is also extremely stable. And it even tackles bridging and overhangs without any fuss.





## Ultimaker Original+

### Tailored for limitless creativity

#### Reliable and accurate

The Ultimaker Original+ offers industry-leading specifications like 20 micron layer resolution and a print head travel speed of up to 300 mm/s.

#### Easy to modify and expand

With upgrade capabilities, our 3D printer kit allows you to experiment and keep your machine up-to-date as the technology develops.

#### Affordable and fun

Assembling your own 3D printer is a fun and great learning experience for those who wish to continue pushing the limits of what is possible.



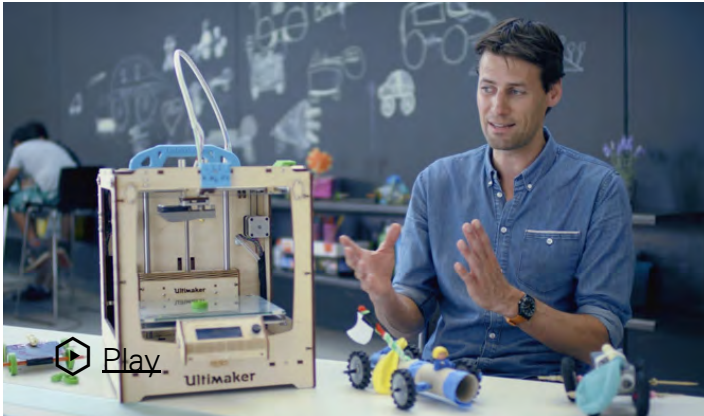
## What's in the box?

PVA allows to effortlessly create complex 3D prints by building water soluble support structures.

- Every part to assemble an Ultimaker Original+
- UltiController with SD card
- Power supply and cable, glue stick, grease, hex wrenches and USB cables
- 750 g Ultimaker PLA
- Online assembly manual
- Cura, our award-winning print preparation software
- Powerful Ultimaker app
- Lifetime expert support
- An active global community of makers

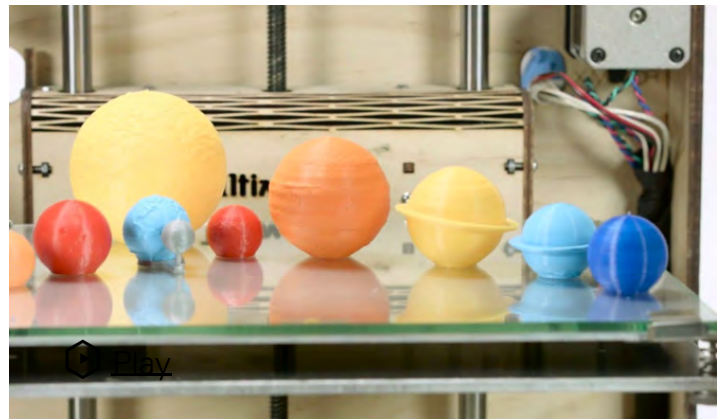


# Ultimaker Original+ Make it yours



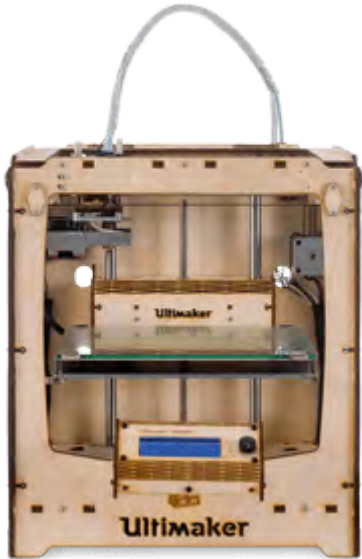
Educator Robin Platjouw created an innovative makerspace at his primary school which includes Ultimaker 3D printers.

This timelapse shows the Ultimaker Original+ print a model that helps explain to primary school students how the solar system works.

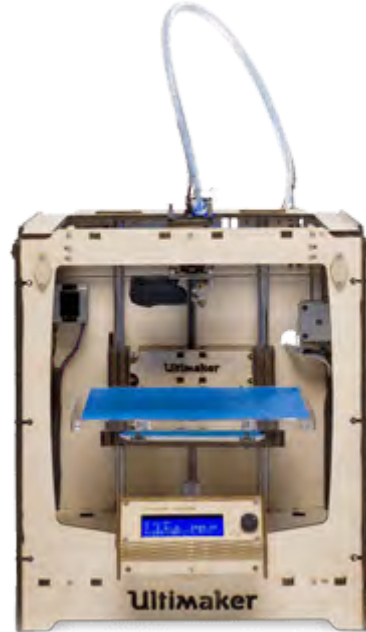


Project Seafood cleans up beaches in Spain and Morocco, 3D printing on the go with filament made out of the plastic trash they find.

# Ultimaker Original+ Specifications



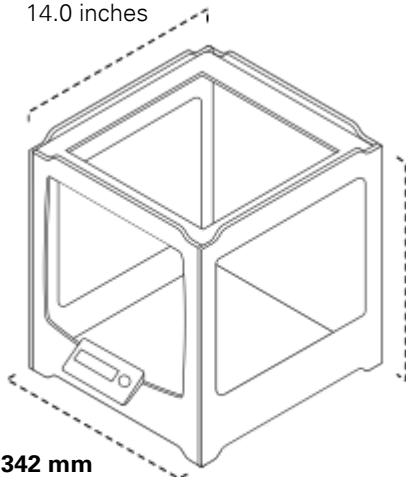
Ultimaker Original+



Ultimaker Original

## Dimensions

**357 mm**  
14.0 inches



**342 mm**  
13.5 inches

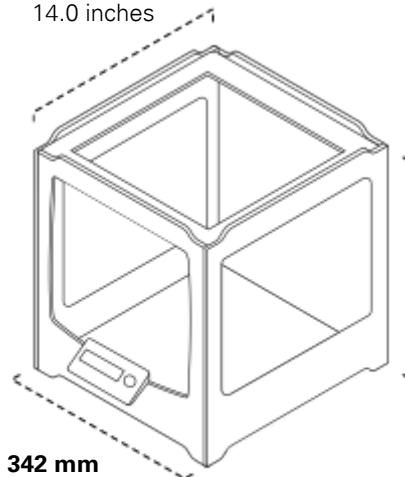
Dimensions with bowden tube  
and spool holder:

**342 x 560 x 650 mm**  
(13.5 x 22.1 x 25.6 inches)

Weight:

**11.5 kg** (406 ounces)

**357 mm**  
14.0 inches



**342 mm**  
13.5 inches

Dimensions with bowden tube  
and spool holder:

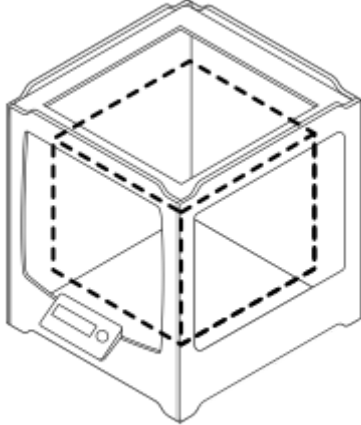
**342 x 560 x 650 mm**  
(13.5 x 22.1 x 25.6 inches)

Weight:

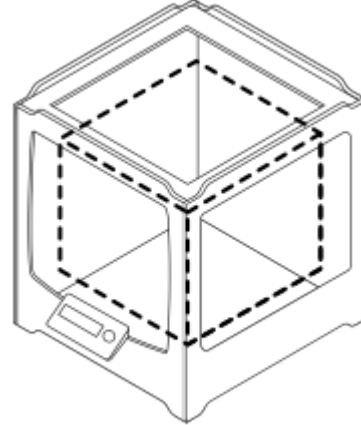
**10.5 kg** (370 ounces)

**388 mm**  
15.3 inches

## Build volume



Dimensions:  
**210 x 210 x 205 mm**  
 (8.3 x 8.3 x 8.1 inches)



Dimensions:  
**210 x 210 x 205 mm**  
 (8.3 x 8.3 x 8.1 inches)

## Printer and printing properties

Assembly type	DIY kit
Layer resolution	0.40 mm nozzle: 200 to 20 micron
Build plate – Ultimaker Original+	50 °C to 100 °C heated glass build plate
Build plate – Ultimaker Original	Acrylic build plate with blue tape
Build plate leveling	Manual leveling
Print technology	Fused Deposition Modeling (FDM)
Build speed	0.40 nozzle: up to 8 mm <sup>3</sup> /s
Print head	Single extrusion print head with swappable nozzles
Print head travel speed	30 to 300 mm/s
XYZ accuracy	12.5, 12.5, 5 micron
Nozzle diameter	0.4 mm
Nozzle temperature	180 °C to 260 °C
Nozzle heat up time	< 2 minutes
Build plate heat up time - Ultimaker Original+	< 4 minutes
Operating sound	57 dBA

## Materials

System	Open filament system
Filament diameter	2.85 mm
Supported materials – Ultimaker Original+	PLA, ABS, CPE
Supported materials – Ultimaker Original	PLA
Ultimaker filament	A spool of Ultimaker filament is 750 g

## Requirements

Software	Cura, our free print preparation software
Supported OS	Free on macOS, Windows and Linux
Supported file types	STL, OBJ and AMF
File transfer	Standalone SD card printing
Operating ambient temperature	15 °C to 32 °C (59 °F to 90 °F)
Nonoperating temperature	0 °C to 32 °C (32 °F to 90 °F)
Input - Ultimaker Original+	100 - 240V 4A, 50-60Hz 221 W max.
Output - Ultimaker Original+	24 V DC, 9.2 A
Input - Ultimaker Original	100 - 240V 2A, 50-60Hz 120 W max.
Output - Ultimaker Original	19 V DC, 6.32 A

## Hardware components

See the hardware components in these schematics

