

3D Printing

Makerbot

Makerbot 3D Printers

What is a MakerBot?

In 2009, MakerBot were there right at the beginning of the new generation of affordable 3D printers. Now, with backing from Stratasys (market leaders in industrial 3D printing) this experience has led to the evolution of a range of 3D printers widely used by hobbyists, design professionals and educators. The MakerBot Replicator+ model has excellent visibility with an open and easily accessible build platform, and the Replicator Z18 features a locking door for enhanced safety and improved climatic control.



Keeping it Simple

Ready to go, right out of the box. MakerBot 3D printers offer a straightforward setup experience and easy-to-use software with no tinkering required.



Often, good engineering design is a case of 'keep it simple', and the MakerBot range are designed to use a single material (PLA or ABS) with a single extruder. The quick-change MakerBot Smart Extruder+ has been rigorously tested in development for over 160,000 cumulative hours (that's 18 years!) to ensure long lasting reliability.

Time v Resolution

A minimum layer resolution of 100 microns make smooth-to-the-touch surfaces a reality without sanding or finishing. At the other end of the spectrum, the settings can be switched to 400 microns to produce a fast draft for quick iterations of an evolving design. The innovative MinFill print mode saves time and money by printing only the minimum internal supports in areas that require structural support.



About the Hardware

The new flexible build plate with 'Grip Build' surface ensures that prints adhere firmly resulting in reduced warping and curling, and remove easily when the job is complete. The build plate is factory-levelled so your Replicator+ is ready to use. All models have a built-in camera for print monitoring which can be accessed from any browser on any device, so you no longer need to rush your lunch to keep tabs on how that complex print is progressing!



Software

The simple and intuitive MakerBot Print software is included. The setup process (with built-in animated preview) is quick and straightforward, and the software even allows fine-tuning of settings during printing. Files can be transferred to all models via direct USB connection, WiFi or wired ethernet connectivity.



Prices £*

*See Pricing Information on page 2

MakerBot 3D Printers

TM-MBSCB	Makerbot Sketch Classroom Bundle. Contains 2 Makerbot Sketch 3D Printers, 3 blue PLA filament, 3 yellow PLA filament, 4 build beds, print toolkit, 2 teacher certification, 10 student certification.
TM-MBRP	MakerBot Replicator+ 3D Printer
TM-MBZ18	MakerBot Replicator Z18 3D Printer
TM-MBM	MakerBot Method 3D Printer
TM-MBMX	MakerBot Method X 3D Printer

Recommended Extras for Makerbot Method X

TMP-MBM-EXT1	Model 1 Performance Extruder
TMP-MBM-EXT2	Support 2 Performance Extruder
TM-DIM-CS10	Stratasys SCA-1200HDT Clean Station
TMP-MB-EC1	24 Pks of 2 Ecworks Tablet Cleaning Agent

Materials

For Materials see page 61.

Recommended Software

SOLIDWORKS (page 18)

MakerBot Sketch Classroom Bundle

The MakerBot Replicator+ combines unparalleled performance with superior results and lasting reliability. For greater reliability and precision, the Replicator+reliability and d



Specification

Max build size: 150 x 150 x 150mm
 No. Extruders: 1
 Model Material: MakerBot Sketch PLA, MakerBot Sketch Tough
 Layer Resolution: 100-400microns. Print mode tuned for 200 microns.
 Interface: USB, Ethernet, WiFi
 Dimensions: 423.1(W) x 365(D) x 433.4(H)mm
 Weight: 11.8kg

MakerBot Replicator+

The MakerBot Replicator+ combines unparalleled performance with superior results and lasting reliability. For greater reliability and precision, the Replicator+ features a redesigned gantry and Z-axis, with strengthened components.



Specification

Max build size: 295 x 195 x 165mm
 No. Extruders: 1
 Model Material: PLA Filament
 Slice Resolution: 0.1mm (100 microns)
 Interface: USB, Ethernet, WiFi
 Dimensions: 610(W) x 570(D) x 450(H)mm
 Weight: 18kg

MakerBot Replicator Z18

Ideal for a department with ambitious and imaginative students, the massive build volume of the Z18 makes it possible to print complex full-scale prototypes and parts at a vastly lower cost than industrial 3D printers. Despite the impressive specifications, this model is as simple to set up as more basic models in the range.



Specification

Max build size: 305 x 300 x 457mm
 No. Extruders: 1
 Model Material: PLA Filament
 Slice Resolution: 0.1mm (100 microns)
 Interface: USB, Ethernet, WiFi
 Dimensions: 650(W) x 719(D) x 1060(H)mm
 Weight: 52kg

MakerBot Method & Method X

The MakerBot Replicator+ combines unparalleled performance with superior results and lasting reliability. For greater reliability and precision, the Replicator+ features a redesigned gantry and Z-axis, with strengthened components. For greater reliability and precision, the Replicator+ features a redesigned gantry and Z-axis, with strengthened



Specification

Max build size: 190 x 190 x 196mm (single extrusion)
 152 x 190 x 196mm (dual extrusion)
 Model Material: PLA, Tough, PVA, PETG
 Layer Resolution: 20 - 400 microns
 Interface: USB, Ethernet, WiFi
 Dimensions: 437(W) x 413(D) x 649(H)mm
 Weight: 29.5kg

Ultimaker Materials

PLA Filament

TMP-UMMP-COL*	750g Reel of PLA Filament. Available in Black, Blue, Green, Magenta, Orange, Pearl White, Red, Silver/Metallic, Transparent, White & Yellow.	
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Tough PLA Filament

TMP-UMMPT-COL*	750g Reel of PLA Filament. Available in Black, Green, Red & White.	
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ABS Filament

TMP-UMMA-COL*	750g Reel of ABS Filament. Available in Black, Blue, Green, Grey, Orange, Pearl Gold, Red, Silver, White & Yellow.	
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CPE (PET) Filament

TMP-UMMC-COL*	750g Reel of CPE (PET) Filament. Available in Black, Blue, Green, Light Grey, Dark Grey, Red, Transparent, White & Yellow.	
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Polycarbonate Filament

TMP-UMMB-COL*	750g Reel of Polycarbonate Filament. Available in Black, White & Transparent.	
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CPE-TR Filament

TMP-UMMCT-COL*	750g Reel of CPE-TR Filament. Available in Black, White & Transparent.	
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Nylon Filament

TMP-UMMN-COL*	750g Reel of Nylon Filament. Available in Black or Transparent.	
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TPU (Flex) Filament

TMP-UMMF-COL*	750g Reel of TPU (Flex) Filament. Available in Black, Blue, Red, White.	
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Tough PLA Filament

TMP-UMMPT-COL*	Ultimaker 750g Reel of PLA Filament. Available in Black, Green, Red and White.	
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Support Filament

TMP-UMMS-V1	350g Reel of PVA Natural Support Filament	
TMP-UMMS-V2	750g Reel of PVA Natural Support Filament	
TMP-UMMS-B1	750g Reel of Breakaway Support Filament	

Cleaning Filament

TMP-UMMCF1	Cleaning Filament	
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MakerBot Sketch Materials Accessories

PLA Filament

TMP-MBSP-COL*	MakerBot PLA Filament. Available in Black, Blue, Green, Grey, Orange, Red, White & Yellow.	
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Tough Filament

TMP-MBST-COL*	Tough Filament. Available in Black, Grey, Orange & White.	
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Build Plates

TMP-MBS-BP-2	Pack of 2 Build Plates	
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Extruders

TMP-MBS-EXT-2	Pack of 2 Extruders	
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Particulate Filter

TMP-MBS-PF1	Particulate Filter	
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MakerBot Replicator + & Z18 Materials

Standard PLA Filament

TMP-MBP2-COL*	MakerBot PLA Opaque Filament Small Reel (0.2kg). Available in Black, Blue, Brown Cool Grey, Green, Orange, Red, Warm Grey, White, Yellow.	
TMP-MBP-COL*	MakerBot PLA Opaque Filament Large Reel (0.9kg). Available in Black, Blue, Brown Cool Grey, Green, Orange, Red, Purple, Warm Grey, White, Yellow.	
TMP-MBPX-COL*	MakerBot Opaque PLA Filament Extra Large Reel (for Z18 only). Available in Black, White, Grey.	

Translucent PLA Filament

TMP-MBP2-TNT	MakerBot PLA Translucent Filament Small Reel (0.2kg). Natural.	
TMP-MBP-TNT	MakerBot PLA Translucent Filament Large Reel (0.9kg). Natural.	
TMP-MBP2-TCOL*	MakerBot PLA Translucent Filament Small Reel (0.2kg). Available in Blue, Orange or Yellow.	

Speciality PLA Filament

TMP-MBS2-COL*	MakerBot Speciality PLA Filament Small Reel (0.2kg). Available in Khaki or Peach.	
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Tough PLA Filaments

TMP-MBT-COL*	MakerBot Tough Filament. Available in Black, Grey, Orange & White.	
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MakerBot Replicator + & Z18 Accessories

For Replicator+

TMP-MB-PLATE3	Replicator Build Plate	
TMP-MB-TAPE5	Pk of 10 Replicator Build Plate Tape	
TMP-MB-GREASE1	3 Grease Packets	
TMP-MB-EXT3	Smart Extruder+ for Replicator, Replicator+, Replicator Mini, Replicator Mini+	
TMP-MB-EXT4	Tough Filament Smart Extruder+ for Replicator+, Replicator Mini+.	

For Replicator Z18

TMP-MB-PLATE7	Pk of 3 Replicator Z18 Build Plate	
TMP-MB-TAPE1	Pk of 4 Replicator Z18 Build Plate Tape	
TMP-MB-GREASE1	3 Grease Packets	
TMP-MB-EXT2	Smart Extruder+ for Replicator Z18	
TMP-MB-EXT5	Tough Filament Smart Extruder+ for Replicator Z18.	

*When ordering, where COL is included in the order code, please change this to specify the actual colour(s) required.