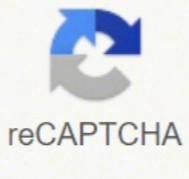
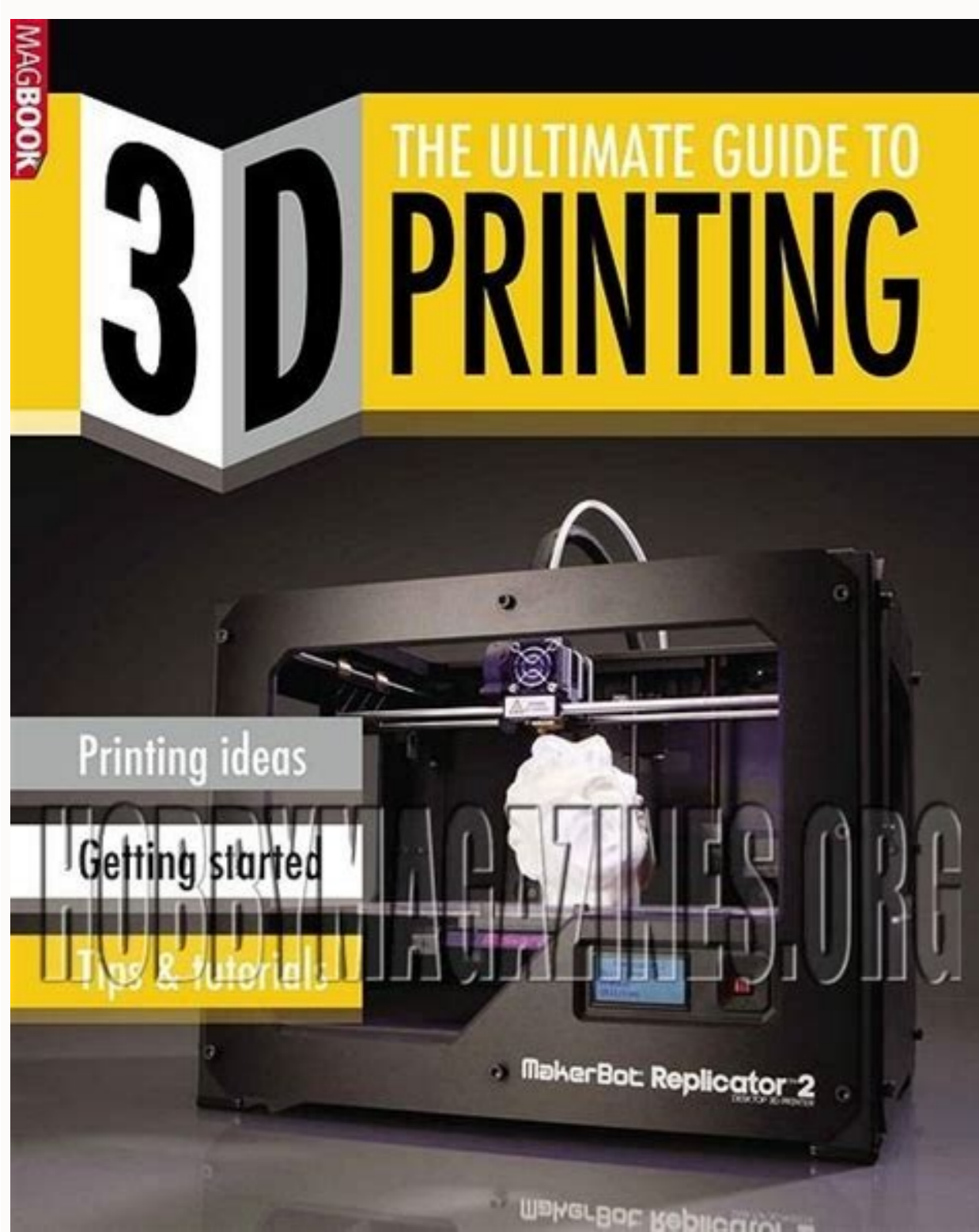




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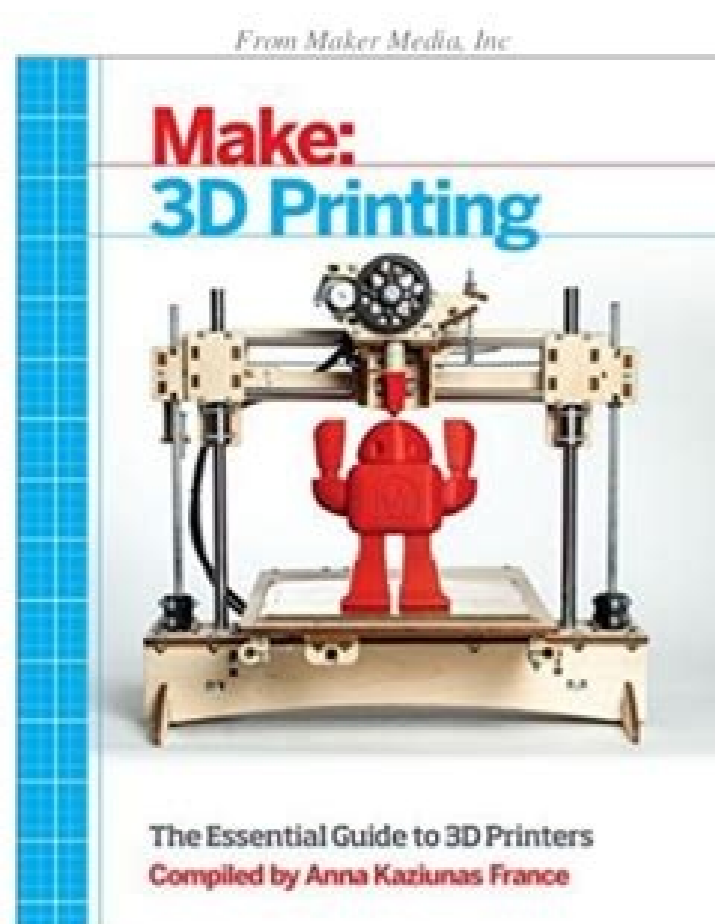


## MATERIALS GUIDE CHART

Materials Guide						
Material	Features	Printing Temperature	Heated Bed Temperature	Print Speed	Fan Speed	Nozzle Requirement?
rPLA	Easy to print, low warp and stronger than normal PLA	190-220°C	0-60°C	Medium-High	50-100%	No
rPETg	Highly durable, flexible and food contact acceptable	195-235°C	50-70°C	Medium	50-100%	No
rABS	High impact strength and little/no warping	240-260°C	75-100°C	Medium	0-50%	No
Carbon Fibre	Stiff, low warping and matte finish	220-260°C	0-60°C	Medium-High	50-100%	Hardened nozzle; >0.4mm
Polycarbonate	Tough, heat resistant to 140°C and BPA-free	270-300°C	100-120°C	Low-Medium	0-25%	No
ASA	Strength, low warp and UV resistance	230-260°C	80-100°C	Medium	0-50%	No
Wood	Authentic wood finish, smell and feel	205-235°C	0-60°C	Medium-High	50-100%	>0.4mm
FLEX	Flexible, oil-resistant and 400-450% elongation at break	220-250°C	0-60°C	Medium	50-100%	No

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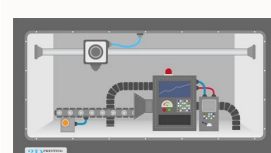
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I think that Make: 3D Printing: The Essential Guide to 3D Printers are great because they are so attention holding, I mean you know how people describe Make: 3D Printing: The Essential Guide to 3D Printers From Maker Media, Inc good books by saying they cant stop reading them, well, I really could not stop reading, It is yet again another different look at an authors view.

The many reviews about Make: 3D Printing: The Essential Guide to 3D Printers before purchasing it in order to gage whether or not it would be worth my time, and all praised Make: 3D Printing: The Essential Guide to 3D Printers: 33 of 35 review helpful Ton s of content but already outdated By Matthew Knippen Reading through this book I was amazed at the amount of content that was in here and most of the tutorials were great for someone new to 3D printing but i m willing to bet even some of the most experienced 3D printer people out there haven t tried all of the different







# Ender 3 Series 3D Printer

## Quick Start Guide



V. 1. 0

- ◆ This guide is for the Ender 3 Series of 3D printers.
- ◆ Select the correct input voltage to match your local mains (220V or 110V).
- ◆ Because of software/hardware upgrades and model differences, new revisions may not be listed in this guide.
- ◆ Detailed instructions for use are available on the SD card.

## Notes

1. Do not use the Printer in any way other than described herein to avoid personal injury or property damage.
2. Do not place the Printer near flammables, explosives or heat sources. It is best to place it in a well-ventilated, low-dust environment.
3. Do not expose the Printer to violent vibration or any unstable environment. This will cause poor print quality.
4. The filaments recommended by the manufacturer are preferred as to avoid clogging in the hot end and/or Printer damage.
5. Do not use any other power cable than the one supplied. Use a grounded three-prong power outlet.
6. Do not touch the nozzle or hot bed during printing. Keep hands away from machine while in use to avoid burns or personal injury.
7. Do not wear gloves or loose clothing when operating the Printer. These loose articles can become caught in moving parts and cause personal injury or Printer damage.
8. Clean off filament from the nozzle tip with the provided pliers before the nozzle cools. Do not touch the nozzle directly. This can cause personal injury.
9. Clean the Printer frequently. With the machine powered off, clean the printer body with a dry cloth to remove dust, adhered printing materials and foreign objects on guide rails. Use glass cleaner or isopropyl Alcohol to clean the print surface before every print for consistent results.
10. Children under 18 years of age should not use the Printer without supervision.

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The Adventurer 4 comes with interchangeable print nozzles to control the layer size of your prints, as well as to handle different temperatures. But as an introduction to 3D printing, this device will appeal to young makers looking to flex their creative muscle. It is at a better price than we have seen at other retailers, suggesting that consumables for this older printer may be running at a lower cost. (Image credit: XYZ) With the Monoprice Delta Mini V2 3D printer now available, the da Vinci Nano from XYZprinting can no longer boast of being the best inexpensive 3D printer out there. You will have a slightly larger print area than with Form 2, but the real change in this new version is the redesigned optical engine of Form 3. We also appreciate the use of low force stereolithography, which means that Forms 3 uses less force when working with the hardened layers of a print-in-progress. The Forms 3 debuted at \$3,499 – not a cheap option by any stretch of the imagination. This limit is defined by the size of the print bed and how far the printer can move the printhead. You will find yourself recharging the pen frequently, as the 3Doodler Create Plus uses shorter filaments, but overall this is a very good experience for people who want to find a creative way to design small objects. Read our full review of the 3Doodler Create Plus (Image credit: Make.Toys) There are 3D printers more sophisticated than the Toybox 3D Printer. It is still available from 3D printing Dynamism for \$1,495. The FFF printers are generally cheaper, simpler and easier to use, although SLA models such as the Peopoly Phenom are coming down in price. In addition to 3D printers, there are also 3D pens that hobbyists can use to create models using filament. The Avair is a soft, rubbery material) and HDPE (a lightweight, tough polystyrene). Many of these materials, particularly PLA and ABS, are available in a huge variety of colors. (One of the best 3D printers for people on a budget, the da Vinci Mini, only works with PLA filament from manufacturer XYZprinting, for example; on the plus side, XYZ filament costs the same as most third party materials) Other 3D printers have no restrictions on the type or origin of the material. Print Volume: All printers have limits on the size of 3D print they can produce. But there is a big difference between the printer you would like to build prototypes and you would like to use on your own. There is a \$19.99 kit that features additional nibs for changing the layer size and texture of your model pens. 3D usually appeals to younger users, and the size and simple controls of the 3Doodler Create Plus is just the right size for tiny hands. Even better, at less than \$1,000, you get a very polished printer without having to spend big bucks. Read our Full Flash For Forge Adventurer 4 review. (Image credit: lulzbot) This updated version of the Lulzbot Mini doesn't miss a step when it comes to replicating what made the original 3D printer so great. We can help you find the best 3D printers in a wide variety of use cases. We have tested enough models to separate the best 3D printers from the also-rans, with choices ranging from entry-level units to more advanced machines. This is because of the way 3D printing works: the printout is built up in layers. FFF printers - which also cover FDM (Fused Filament Fabrication) and FDM (fused deposition modeling) devices - work melting plastic filament into a moving printhead to form the model. Here are some things to consider when buying a printer. Printer Type: There are two main types of 3D FFF (cast filament manufacturing) and SLA (stereo lithography). But you get support for a wide variety of materials, with the Monoprice Delta Mini V2 able to handle PLA, ABS, and other materials. Again, you have a printer flexible enough to handle different materials at an affordable price if you are ready to move up from starter models. But the LulzBot Mini 2 surpasses its predecessor, giving you a larger print area to work with and a new, more flexible printhead that can handle even more materials. This is usually measured in cubic inches, but you should also pay attention to each of the individual dimensions, which determine the maximum size of 3D printing that the device can create. 3D printing is a slow business, and at the moment there is no way around it. We also take note of any special setup instructions. We look at what kind of materials a 3D printer supports and whether the manufacturer requires you to use only materials that they sell. When it's time to test the printer, we have three different test models. A miniature statue of Rodin's Thinker, a complex set of planetary gears incorporating interconnected parts, and a geometric sculpture to see well the printer can reproduce sharp edges and points. Prices for entry-level 3D printers are now under \$300, and some of the best 3D printers now cost less than \$200. While online retailers like Amazon offer different 3D printer options, some 3D printer manufacturers only offer their products through their own websites, how we test 3D printers When we review a 3D printer, we configure each model by looking at how long it takes to remove the printer from its packaging to the printer so that it is ready to use. You will also find hundreds of 3Doodler stencils that can help you design toys, animal models, and other architectural projects. We found that Photon Photon X Created SLA High quality prints quickly, despite the occasional impression error. 3D Printing enthusiasts will appreciate the large impressions - 331 inches. Meanwhile, a newer model - the 3 more form - reached the same price of \$ 3,499, and is supposed to produce 40% more fast prints than the unit we analyze. If you would like to try Toybox for yourself, you can buy a start kit directly from Make.Toys that includes the printer and a selection of materials; Be aware that this 3D printer is in the backorder as this wording. Read our complete revision of the 3D ToyBox printer. Are you? If you are a beginner who only wants to start with 3D printing or someone looks for a larger end model to help with professional design projects, here is how to get your hands on the best 3D printer Able to produce just what you are looking for. What are the best 3D printers? With a € €

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