

HOMEGROWN 3D

GROW YOUR OWN PRINTFARM!

Newsletter on FDM 3D Printing, by Jacob Bloom
Subscribe at HomeGrown3D.com
Issue 1, January 2022



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NEVER LEVEL YOUR BED AGAIN!

With Our Ender 3 Bed Leveling Wheel Clips!

Support free, and easy print!

Tested in PLA and PETG, with stock springs, yellow springs, and silicone spacers.

Releases the tension on the bed and minimizes warping!

Set it and forget it bed leveling!

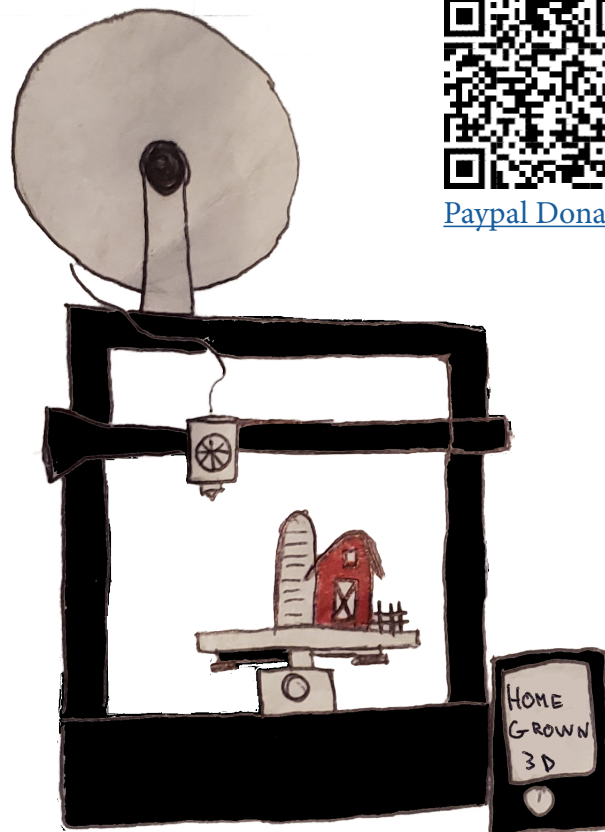
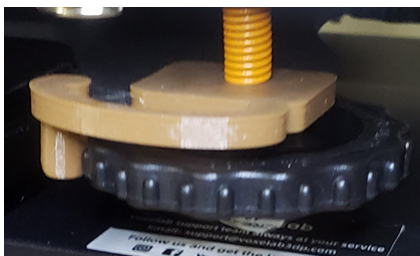
When you do have to level, the clip thumbs click against the

wheels, making for easy and consistent adjustments.

Switch from glass and glue to spring steel PEI, without any need for auto bed leveling systems like a BLTouch!

Really makes a spring steel PEI bed work great and carefree!

I think these will become a standard on new printers!



Click here to Download HomeGrown3D
Bed Leveling Wheel Clips at:

PrusaPrinters.org

RECOMMENDED ITEMS ON AMAZON

I bought a lot of stuff that I didn't like so you don't have to! Here is what made the cut:
(HomeGrown 3d is an amazon affiliate and earns from all qualifying purchases.)

[ESUN PLA Pro\(+\)](#)



The main filament I recommend to beginners. Incredibly easy to print and durable. Not to be confused with regular ESUN PLA. Need the Pro and + labeling. I use this stuff all the time, especially the bone white and warm white for making lithophanes.

[Triangle Labs BMG Extruder](#)



Triangle Labs extruders sold under another name. Arrives in a Triangle Labs box with Go3dprint sticker on top. Perfect combo of low cost, high quality, and high accessibility. Consistent and reliable extrusion compared to stock extruders. They have a new 2.1 version (<https://amzn.to/3zCgyom>) that is more expensive and I have not tried yet.

[Befenybay Spring Steel PEI Build Surface](#)



[Double sided Textured single sided](#)

I've only tried this brand so far. I have one of their single sided and two of their double sided sheets. They work amazing. On the double sided ones I like the textured side more. Hardly use the smooth side. The single sided option seems to have less coating, but works great for me all the same.

SHIPPING AND INVESTING: UPS

(This is not investment advice.)

I am always improving my shipping and investing practices. This time the subjects met over the matter of 3d printing! My investing friend showed me [ARK Financial's Exchange Traded Fund \(ETF\) on 3d printing](#). It included United Parcel Service (UPS). This made me think; every time I order MJF or SLS prints from a print service, they have come by UPS. Is that just a coincidence? Then we found [this UPS web page offering 3d print farm services!](#) Whoa!

An ETF can be used to show us the publicly traded companies in the 3d printing space. Are there any that ARK is missing out on?

THE PURGE LINE



BASIC TUNING CHECKLIST✓

- _ Leveled (Trammed) Bed
- _ E Steps and Flow
- _ Hotend and Bed Temperature
- _ Retraction
- _ Infill %, Number of Walls, Top and Bottom Layers
- _ Dry Filament

ENTRY LEVEL PRINTERS

My favorite FDM printers under \$200(USD) :



[Kingroon KP3S](#) \$159 shipped on Ebay

- Resembles the Prusa Mini.
- Ready to go in under 10 minutes.
- Amazing way to scale a print farm on a tight budget.
- Install bed leveling wheel clips and send it!



[Voxelab Aquila](#) \$159 shipped on Ebay

- Ender 3 v2 clone.
- Great community support.
- Install bed leveling wheel clips, update firmware, add Spring Steel PEI Bed, a BMG or Titan clone extruder, and send it!

RECOMMENDED ITEMS ON AMAZON:

[Polisi3d Plated Nozzles](#)



Not all nozzles are created equal! Some cheap nozzles are great, but it's hit or miss. I found these to have great machining quality and the plating helps filament fall right off when cleaning.

[Polisi3d Ti V6 Heatbreak](#)



At the core of a quality v6 hotend setup is a well machined heat-break. These heatbreaks have been great for me so far! Loving em.

[Polisi3d Aluminum V6 HeatBlock](#)



The heatblocks I recieved had quality machining, and have been working great! I also use their copper heat block for my higher heat applications.