

Exciting times with lots of projects and new developments at RepRapWorld. The LCD module is almost ready finally, sorry for keeping you guys waiting this long, but it will be worth it! So while you are waiting anyway, you can check out the BIG printer and start building your own version as I released the source files to GitHub. See below for details. If you have feedback regarding the newsletter or you like to share your own news that is interesting for our audience, please feel free to drop an email at: info@reprapworld.com.

TCT show 2015



We will be exhibiting at the TCT show 2015 on September 30th and October 1st, where a whole section is dedicated to the RepRap community. A lot of companies known in the community will be there. If you happen to be there, make sure to visit our stand at J39! We will be showing off our filament and new upcoming "Beagle" printers line!

Due to the TCT show the Beer and pizza party has been moved to the **8th of October**. Of course orders will continue to ship normally.

Events

8/10: Beer and pizza!

Due to the TCT2015 event the B&P has moved to the 8th. You are welcome to ask questions, show your printer, talk with like-minded 3D printer enthusiasts. Check our [facebook](#) for pictures of the previous events!

3D printer news

[3D Printing Fabric with Thermoplastic Polyurethane](#)

Israeli architect David Mussaffi's latest 3Dprint creation springs from a material exploration using thermoplastic polyurethane (TPU), a filament that prints at an extrusion temperature of 200-220 Celsius (392-428 Fahrenheit). Mussaffi wanted to use this filament to create prints thin enough to be considered a type of fabric. The idea of printing fabric is not new. In May the Electroloom, a 3D printer that has the ability to 3D print fabric using a process similar to metal electroplating, was introduced to the world through Kickstarter. The Electroloom was an exploration in the creation of a machine that would print in a particular form that would create the process for fabricating flexible, soft fabric with a 3D printer. Mussaffi's project uses a standard 3D printer and investigates the possibilities for a particular material to become fabric-like.

Beagle pre-order!



Our latest delta printer development named "Beagle" will be unleashed to the world October 22nd! This is a beautiful looking printer that RepRapWorld has developed.

We are down to the final tweaking on the design files (and awaiting delivery of the last few components) and are ready to accept pre-orders. The Beagle is easy to assemble, provides reliable, high quality prints and is of course open-source in the spirit of RepRap. We're offering the

[Gareth Ladley's 3D printed bespoke kitchen tools for chefs to revolutionize idling kitchen technology](#)

Ladley's Auxiliary Tools project is not restricted to the set of tools he has designed, however, as he hopes that in the future industrial kitchens will begin to introduce designers into their staff, who will work with the head chefs to design and create tools to fit the specific kitchen's needs. That is, he intends for industrial kitchens to take on the role of a workshop in a sense, in which the necessary tools for completing kitchen tasks can be designed and manufactured within the kitchen environment itself.

[This 3D Printer Is Music to Your Ears](#)

No, this isn't some cheesy metaphor; okay, well maybe it is, but the point remains: 3D printers can be programmed not only to create a range of delightful printed objects, but also to literally make music. Every sound has a note, my vacuum cleaner, for example, emits a low F# when I use it. Having a vacuum cleaner note won't get you very far, unless you are looking to mimic the drone portion of a bagpipe piece, but machines that

printer in three versions:

Beagle Mini €299

Primarily as an introductory printer, this basic version has a build volume of 170mm diameter x 150 mm height and is suited primarily for PLA using an industry leading e3D lite. Heater bed and LCD panel upgrades will be available in the near future.

Beagle Standard €499

This version doubles the print surface area with a 240mm print bed, and includes an embedded LCD controller and full e3D kit with high temperature thermocouple. For all these extra features and build capacity, we consider this printer the best option for value.

Beagle Tower €599

For customers that are looking to build vases or other tall objects, the Tower model adds an extra 10cm of build height and includes the LED lighting effects upgrade.

All options are designed for 1.75mm filament and 0.4mm e3D nozzle. Please let us know in the order comments field if you prefer 3mm or another e3D nozzle size. We also want to say that as one of our early bird customers, you will receive **two spools** of REAL PLA with the color of our choosing for free!

emit multiple noises have been employed in various clever ways to perform those noises in such a way that they become longer, more complicated pieces. In this particular case, Austin Dutenhoeffer has used the various whirrs generated by the movement of a 3D printer.

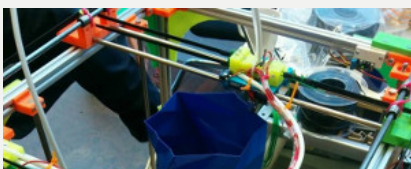
3D Printing Goes 4D with Smart Memory Materials That Self-Assemble

The concept of 4D printing, a term coined by Skylar Tibbitts in his 2013 Ted Talk, was developed to create materials that could be manufactured or assembled in one configuration and then alter themselves by self-assembling into a second programmable configuration. The transformation could be controlled using smart materials that alter themselves based on a pre-set series of movements that would be entirely programmable. We have already seen simple 4D objects transform themselves, but until now more complex self-assembly required multiple types of stimulus that would need to be applied at specific intervals.

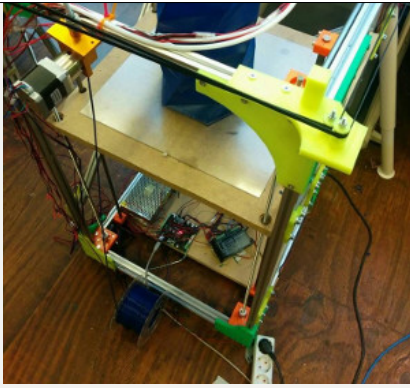
Amazon launches business, industrial & scientific supplies store featuring 3D printers

Amazon UK has today launched a European business, industrial and scientific supplies store featuring more than half a million products including Additive Manufacturing (3D printing) products from 3D Systems and XYZprinting. The new store also features Lab & Scientific Products, Professional Medical Supplies, Power & Hand Tools, Janitorial & Sanitation Supplies, Occupational Health & Safety Products, Tapes, Adhesives & Sealers and Test, Measure & Inspect Devices etc. Leading brands available in the store include 3M Industrial, Kimberly Clark Professional, DuPont, Horiba, Adam Equipment, 3M Littmann, 3B Scientific, Wheaton, and Heathrow Scientific. The 3D printing inventory includes 3D printers from 3D Systems, XYZprinting, Wanhao, LulzBot, Tiertime / PP3DP, PrintME 3D, Velleman, Makerbot, Orion, bq and 3NOVATICA, etc; 3D printing materials and 3D scanners from various companies.

BIG printer source files released



Already featured in a previous newsletter, but now available for download: the big printer. It's build volume is roughly 40x40x100cm, giving a



decent volume for larger objects.

Some features:

- Megatronics with 4 external stepper drivers for the bed leveling (allows future auto bedleveling)
- E3D volcano 3mm with bowden
- Full metal cold end
- CoreXY system

The source files are now available on GitHub: <https://github.com/brupje/BIG>. I am still working on the design, so files will be updated. We will start selling custom length extrusion bars soon, so we will have all materials available to build one yourself. Although it will take some time to print out the required parts ;)

New products



Bars cut to length

We now provide a sawing service to cut bars to length for you with +/- 2mm precision. Misumi extrusions coming soon as well.



Antimicrobial

We now also have an antimicrobial filament available! Normal filament tends to attract lots of germs and mold, making it unsuitable for small children and objects touched by many different people. Purement filament will stop germs from multiplying and reduce the amount of pathogens over a short time.

Highlighted products



ABS 3mm/1kg €12.49

We have temporarily decreased the sales price for a lot of the ABS 3mm to €12.49, this excellent price gives you the chance to finally try ABS for yourself!



Kossel mini kit €549.99

Our recently released kossel mini kit is now on sale for only €549.99, get your own 3D printer now! This Kossel Delta printer is a high performance and fast printer. All the materials used for this kit are high quality items. Check it out in our [printer kits](#) section!

* Prices are excluding VAT and subject to change without notice