

Electronics - Mechanical - Filaments

Finally after a long time we have started doing a newsletter. We will try to update you bi-weekly on the latest news in the 3D printer world. Since this is the first issue we would really like to hear your feedback. Or if you have your own news that is interesting for our audience, please feel free to drop a email at: info@reprapworld.com.

Tech blog: dual extruders



Having two (or more) extruders to your printer gives you a lot of extra possibilities. The obvious one is having multiple colors, like the image of the piece I printed on the left. Loading orange in the first extruder, while having white in the second allows your printer to switch filaments during printing.

A second possibility of dual extruding is having the possibility of using different materials in the same print. Most commonly is the use of a soluble material as second material, to allow building large bridges in your print. For example you can print a horse using PLA. Using the water soluble PVA as supporting material, you can easily print the belly of the horse.

Using dual extruders does add some complexity to printing however. First of all, putting two cold-ends onto the X-axis adds a lot of mass, causing backlash while doing rapid printing movements. Therefore a bowden like solution is preferable, where the mass is taken off the X-axis. Another problem I found is that the tip of the extruder currently not in use will still drool a bit of filament, as it's still hot. This may cause some ugly dots around the edges of your prints. Using a correct retraction length and cooler temperature this issue will become a bit less problematic. All in all a great add-on for your printer to have, as it greatly expands the possibilities!

3D printer news

[Food scientists improved ice printing technique](#)

Food Scientists have managed a way to print ice on a cooled plate of -34 degrees. They have made it possible by using a printer named FoodForm, which is a printer that is able to print on any surface what means they can print on a cooled plate by using anti-griddle science.

[3D printer vending machine](#)

It is called the Dreambox, you can upload your files online and the nearest Dreambox will print your object for you. When your print is ready for pickup, you open a drawer by inserting a special code.

[Printing with potato skin](#)

Recently in Breda (Netherlands) a sculptor named Jos Hamman discovered a way to print with solanyl which is the skin of a potato. He made it by combining PLA pellets with the potato skin and other potato waste.

[United nude launch 3D printed shoes](#)

United nude is a fashion brand which is the first one to bring 3D printed shoes on the market, the shoes are called the "Float" and are printed by the "Cube" printer. Even though the shoes will not be very comfortable to wear, Rem D Koolhaas (founder of united nudes) Says "This design is about creating something beautiful and interesting; it's about experimenting, moving forward and learning along the way."

[Singapore unveils their first 3D bio printer that prints living tissues](#)

Singapore unveils their first Bio 3D printer, they now have the potential to create living tissues such as human cells and drug testing. The printer will also make medical care much easier and cheaper.

What's new?



HIPS €16.99/KG

[High Impact Polystyrene](#) is very similar to ABS in its properties, but works with different solvents (Limonene for HIPS vs acetone for ABS). This allows you to use it as support material for ABS, while it's the same price per KG as opposed to PVA. We now have a broad selection of colors available, for only €16.99/KG!



Bowden setup - Complete kit (1.75mm)

Check out our bowden dual J Head extruder kit! High quality gold anodized aluminum pieces. Everything you need to start printing with dual extruders! [More information](#)

Highlights



We have great discounts on USA ABS filaments while we clean out the inventory. Now only €16.99!
Check it out on the [sales page](#)

* Prices are excluding VAT and subject to change without notice