

REPRAPWORLD

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Tomorrow, Beer & Pizza party!

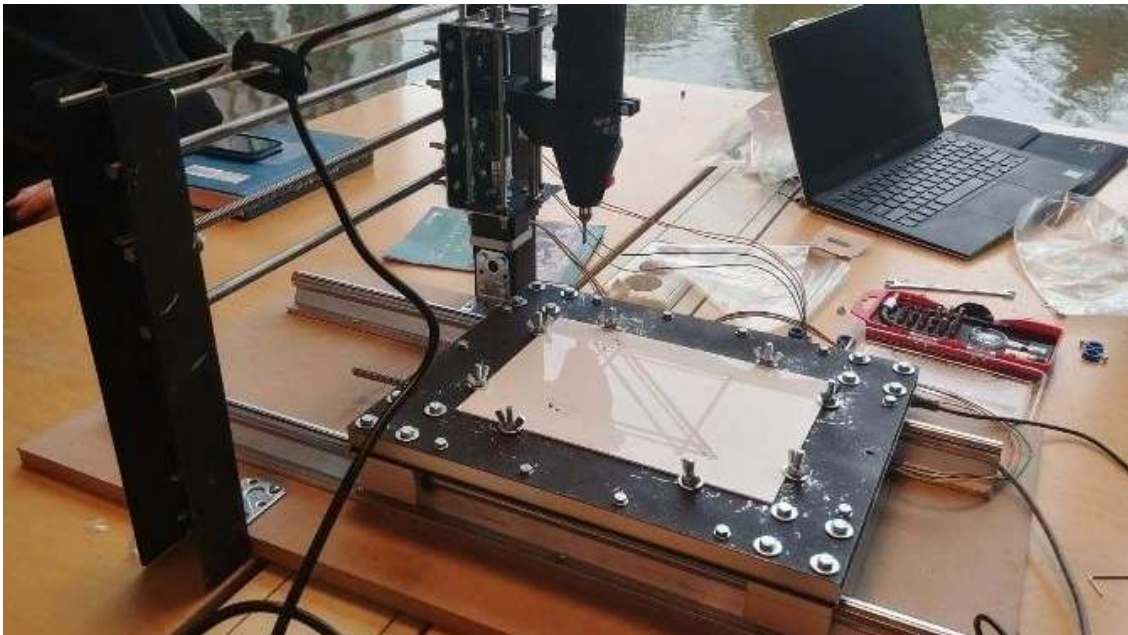
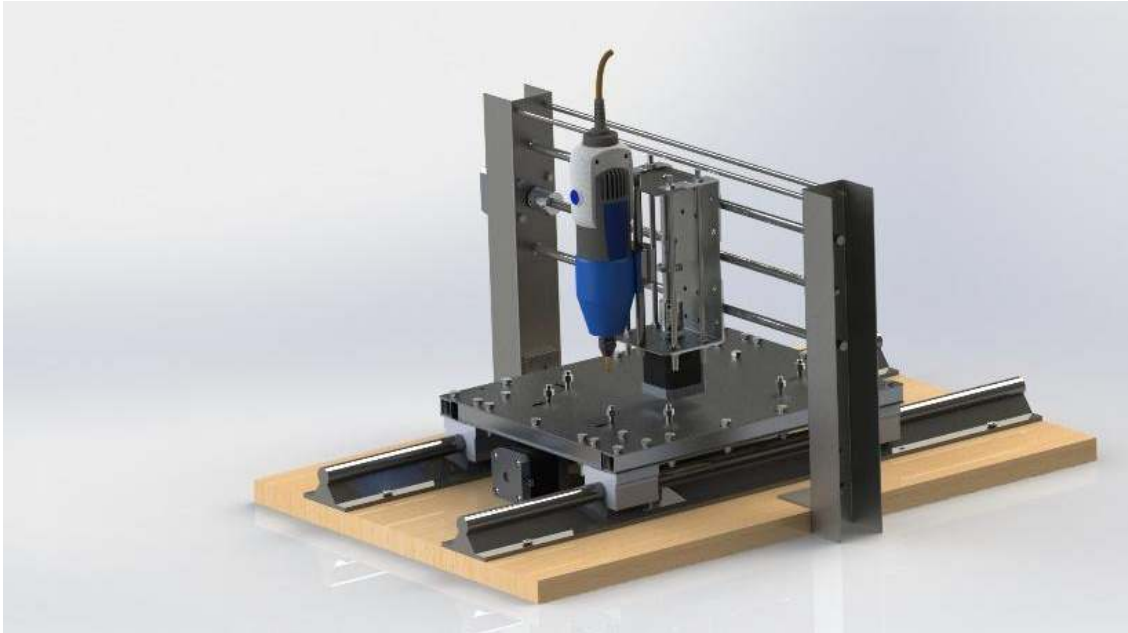
Meet the maker

by Rick Elfferich

Small CNC mill

In the second year on the TU Delft (Mechanical engineering) the students are asked to create a small CNC mill. A lot of the mechanical components are bought from RepRapWorld.

The goal is to be able to mill a prescribed triangle and we are given a very small budget.



On the first picture you can see the render of the machine before construction. The design was adjusted to the available parts at RepRapWorld. In the second picture the actual machine is shown.

The CNC mill is driven with a Arduino with shield, on which steppers are build in. These steppers drive the Nema17 motors. The entire machine is build on a MDF plate. The bed is attached on 2 SBR16 rails with 4 SBR16UU blocks. Movement is possible with the use of a TR8X2 leadscrew. The bed itself is laser cut and because we added multiple holes we are able to attach different sizes of the plate material. Because the bed is made out of wood, we added strips of metal to strengthen the construction.

The sides of the machine hold 2 linear guides and another TR8X2 leadscrew. At the top we added 2 more metal rods to strengthen the structure. These U profiles are attached with 2 L brackets to the MDF base plate.

The Z-axis base plate is attached to the linear guides of the Y-direction. With another leadscrew the

Dremel is moved up and down. The holder for the Dremel as well as the connectors for the lead screws are 3D Printed. We put the motor at the bottom of the machine to keep the center of gravity as low as possible.

Result

The result is a CNC milling machine with a workspace of 212x153x80 mm (X,Y,Z). The average speed of milling is 12 mm/s and the prescribed triangle is completed in 25 seconds.

**Did you print something for one of our products?
Let us know and we will put it in our next
newsletter**

REPRAPWORLD

TCT show report

On 26-27-28 September we attended the TCT show in Birmingham. We were all the way in the corner with all the RepRapPeople and we think there was plenty to see for everyone. Our next door neighbors were Photocentric and E3D and 1 booth over were the people of DUET3D.



On the booth we had our trusted Beagles, Real Filament, RepRapFilament, 3DLAC and in the front the Delta-Rex printer.



The Photocentric3D booth was very beautiful with lots of resin printed samples.

Their daylight resin in combination with their Liquid Crystal Pro printer was able to produce really large but very accurate prints. The smart thing about this printer is that it does not use a projector but a LCD panel with a resolution of 3840x2160. The panel size itself was 23,8 inch which allows for a build volume of 470x240x340mm.

See here our newest products, including the 3D Resins from Photocentric!

On the E3D booth all the regular items were on display.

The items you don't often see are the Kraken, the Cyclops and the Chimera. So those are always nice to view assembled. The 3D printed lion was on our side of the booth, the quality and size of that print was pretty impressive.



New on their booth were the Aqua Titan and Aqua Cyclops. This is a kit which includes a pump/radiator combination and reservoir.

The idea behind these items are that they are usable in a machine with a heated chamber. Allowing you to take away the heat from the cold-end despite the machine being at a high temperature. No further information about pricing / introduction time at this moment.



See here our newest products, including RepRapFilament!



Delta-Rex

On the booth we also had the Delta-Rex designed and made by Russell. This was the star of the show as everyone stopped to watch it 'dance'.

This impressive delta printer has a total print volume of 1200mm tall and a diameter of around ~600mm!

I think most people who visited our RepRap corner remember the machine printing. During the TCT the machine was printing on a large mirror and with bed calibration we were able to get off some decent prints.

On our way to the TCT we stopped at a local company which was able to cut a new aluminium bed for the D-Rex for a decent price.



The aluminium bed is now attached and the calibration has been perfected. Currently we are preparing the D-Rex for transport to Formnext. There we will have a more complete machine to show.

The original plan was to use 3mm filament. But after a lot of testing the highest speed has been achieved with 1.75mm filament a large diameter nozzle and lots and lots of cooling.

So many more things to check, adjust and test!

If you are interested in seeing a large delta printer function or just a free T-shirt?!

Please join us at Formnext 14-17 November in the Messe in Frankfurt

RepRapWorld's Meet the maker wanted!

If you would like to participate in the Meet the maker section. Please use the button below to contact us. And share your story with thousands of like-minded-makers!

We will supply a free spool or RepRapFilament for any story suitable for the newsletter!



Want to pitch your project for the 'Meet the maker' section. Please click here!

Real Filament update

Back in stock PLA Satin Shine and PETG Translucent Orange



Real Filament just delivered a fresh batch of PETG Translucent Orange and PLA Satin Shine to our warehouse.

During the TCT we got a lot of interest on our PETG and Satin series. As with all materials from Real Filament, they are produced in the Netherlands with pure materials and are of the highest quality.



If you really want that sparkle in your filament you should consider the PLA Satin series. Back in stock is the Satin Shine.

The Satin series are available in multiple colors.

The days are getting shorter and darker. If you want to print something bright, consider Real Filament PETG Translucent Orange! PETG is a great alternative for ABS (same impact resistance, but prints like PLA).

Go directly to all Real Filament products in PLA, PETG and many more materials and variants.

Thingiverse updates

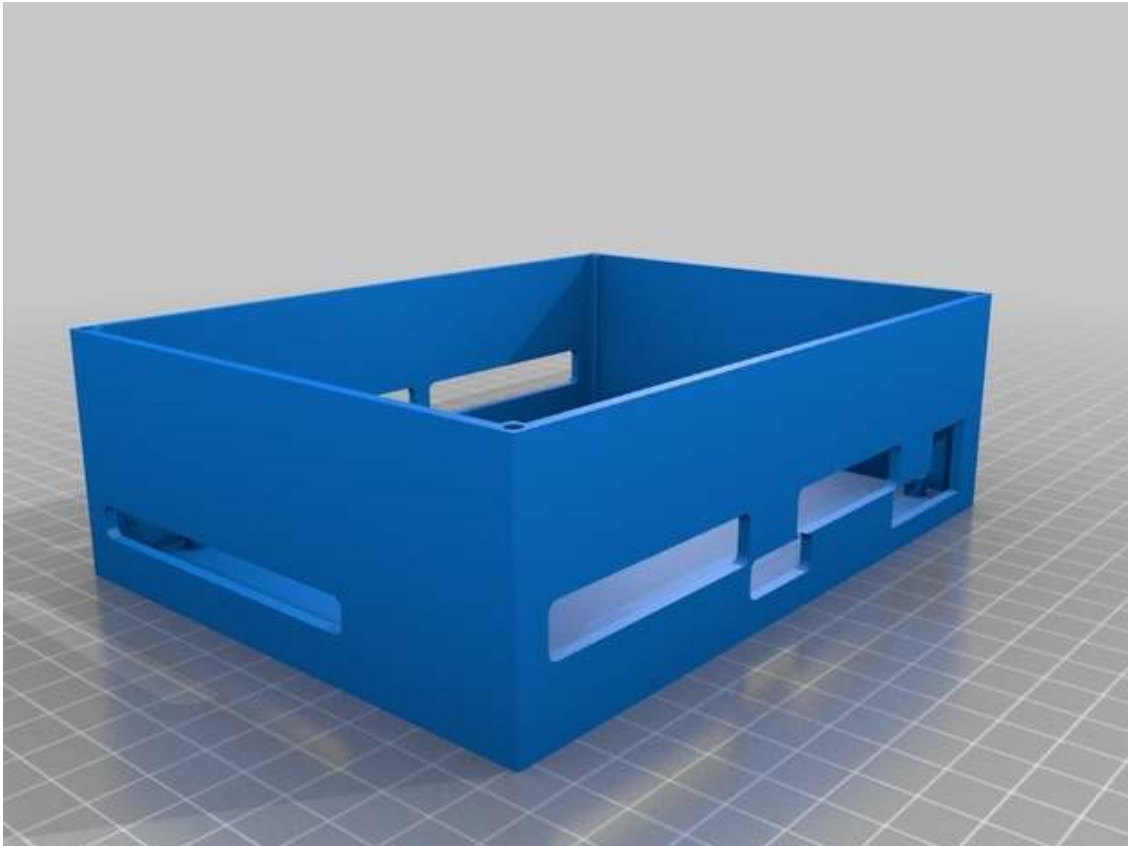


On Thingiverse you can find a lot of cool stuff to print. From Spinners to Pokemon. You can also find handy stuff to cover up electronics.

Maker dgala

Below is a box designed to house your Ultratronics mainboard. To keep the high-end heart of your 3D Printer safe and cooled.

Find the Ultratronics box [here](#).



Exhibitions

Update; RepRapWorld will be attending Paperworld in January 2018. At this show we will be mostly promoting the consumables. We are the official distributor of Real Filament and we will be showing the filament and other consumables. More information on the next edition of the newsletter.

14 - 17 November 2017
Frankfurt, Germany
Messe Frankfurt Hall 3

Stand; Halle 3.1 B61
RepRapWorld will also be attending the formnext show in the messe in Frankfurt. Again, everyone is welcome to join us.

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→ You will then be sent your personal **season entry ticket** via email. This entry ticket entitles you to free entry on all **four days** of the exhibition.

→ Please present your printed ticket on site.

Alternatively, you can redeem this entry voucher at the exhibition for a one day ticket. Upon your arrival at the event, please fill out a registration form and submit it together with the entry voucher at the ticket counter. The entry voucher is meant for personal use only and is not transferable. Prior sale to any third party is not permitted.



You are invited by

ReprapWorld B.V.

hall 3.1, stand 3.1-B61

Organizer
mesago
Messe Frankfurt Group

Mesago Messe Frankfurt GmbH
Rotenburgerstraße 83-85, 70178 Stuttgart, Germany
Board of Management: Petra Haarburger, Martin Roschkowski
Antennergasse Stuttgart, HRB 13314

formnext



Location
Messe Frankfurt, Hall 3
Exhibition Date
14-17 November 2017
Opening Hours
Tue-Thu 09:00 - 18:00 hrs
Fri 09:00 - 16:00 hrs
Conference Date
14-17 November 2017
Opening Hours Conference
Tue-Fri 10:00 - 16:00 hrs
Fri 10:00 - 13:15 hrs

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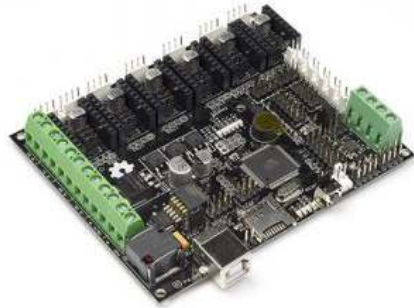
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** All prices are excluding VAT and subject to change*

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