



Swedish company launches the first fume free desktop 3D printer

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Today the Gothenburg company Magicfirm Europe is launching the ZYYX 3D Printer. This new desktop 3D printer, the first designed in Sweden, has innovative solutions to the major issues facing current users of 3D printers.

One major issue when using a 3D printer is that all plastic types will emit gases while being printed using the standard FFF process for 3D printing. For some plastic types such as PLA these gases are considered to have no major health risks, while others such as ABS and polyamide (nylon) are identified as posing a real health hazard. In addition to being a health concern these emissions also smell, causing an unpleasant working environment.

Magicfirm Europe AB, located at the Chalmers Innovation incubator of the world-renowned Chalmers University of Technology, has tackled this problem by designing an enclosed build chamber with an active carbon filter system that removes gases. The key to this function is that the build chamber is kept at a low negative pressure and air only leaves this space through the filter system. Enclosing the print space also improves final print quality by maintaining temperature stability.

Another problem with current 3D printers is the risk of poor adhesion of the first layer of the print to the build plate, resulting in frequent print failures. Current 3D printers therefore need frequent, tedious manual adjustment of the build plate.

The ZYYX 3D Printer solves this problem by probing the build plate at 3 points before every print, and then compensating for any tilt in real time. The key to this active build plate calibration system is a reliable, simple probe design with only a single moving part, and thus a single tolerance point. This probe is calibrated individually on every printer before delivery to make sure the printer delivers a class-leading end user experience. The first production batch of the ZYYX 3D Printer is now being released for order online.

The ZYYX 3D Printer uses a novel build plate design, with a premium borosilicate glass base plate laminated with a custom plastic surface. This build plate surface enables printing with most of the currently available filament types without any need for a heated plate or adding temporary materials to the plate surface. The build plate is held in place with three neodymium magnets, making it easy to remove the plate before removing the prints.

The printer comes fully integrated with Simplify3D, an all-in-one software suite with customised profiles. Coupled with the smart acceleration algorithms of the Sailfish firmware this makes it possible to retain high quality at high speeds.

"I started playing with 3D printers as a personal interest. After all, who can resist the idea of owning

your own personal factory!" says Mats Moosberg, CEO of Magicfirm Europe.

"After setting up my first 3D printer at home with my 3 year old son jumping in excitement next to me I felt immediately that I did not like the idea of exposing him to the fumes from the printer. Since my son's excitement was very difficult to stop the option of forbidding him to join was not realistic, so I started to think about a solution to the problem instead..."

"I soon found that there are a lot of potential improvements to the current breed of 3D printers and contacted Magicfirm LLC in China and asked if they were interested in my ideas. This led to a very close cooperation between our companies, where Magicfirm LLC became a shareholder in Magicfirm Europe AB."

"I very soon visited Magicfirm LLC in Hangzhou, China, and found that this is an innovative young company with good working conditions and a lot of positive momentum.", says Mats.

"The main goal when designing the ZYYX 3D Printer was to lift the printing experience to a new level by adding a number of innovative designs to a known base technology. We have been working hard for almost a year with this design now and I am proud to say that we have succeeded with our goal."

"We have been working with Simplify3D to integrate the ZYYX 3D Printer with their professional software and I believe this integration of two good designs has lifted the ZYYX 3D Printer to a new level of printing experience."

The printer is designed to accept 1.75mm filaments, and uses a standard spool holder accepting most types of filament spools. It has one of the largest build volumes of its product segment with 270x230x195mm.

The printer is priced at €1,550 plus VAT and shipping, and sales will start shortly from the website with delivery from the warehouse in Gothenburg, Sweden.

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About the Company

Magicfirm Europe AB was founded in September of 2013. The Chinese 3D printer manufacturer Magicfirm LLC was made a shareholder in the company.

The Magicfirm Europe AB office is located next to Chalmers University of Technology in Gothenburg, at the premises of the Chalmers Innovation incubator.

Gothenburg is a place where cooperation with Chinese companies is well established since all the way back to 1731 when the Swedish East India Company was founded and operated ships out of Gothenburg for trade with Shanghai, and up to the recent purchase of Volvo Cars by the Chinese car maker Geely..