

Preview Maker Faire Rome - “The European Edition”

ROBOT FACTORY WILL TAKE PART TO MAKER FAIRE ROME - PLACED IN THE ‘FIERA DI ROMA’ – ROME (ITALY) - FROM 12TH TO 14TH OF OCTOBER, 2018

Come and visit us! *For the European premiere of our brand new 3D printer, SLIDING-3D*

TO EMANCIPATE THE CREATIVITY WITH PROTOTYPING AND PRODUCTION AT SUSTAINABLE COSTS

Never before so many innovative technologies have been available, so many companies are eager to take advantage of these new opportunities. If it is true that rapid prototyping is the technology that allows to create innovative ideas and shape them for your business, **Sliding-3D is the new, smart, opportunity to exploit technology to innovate your business.**

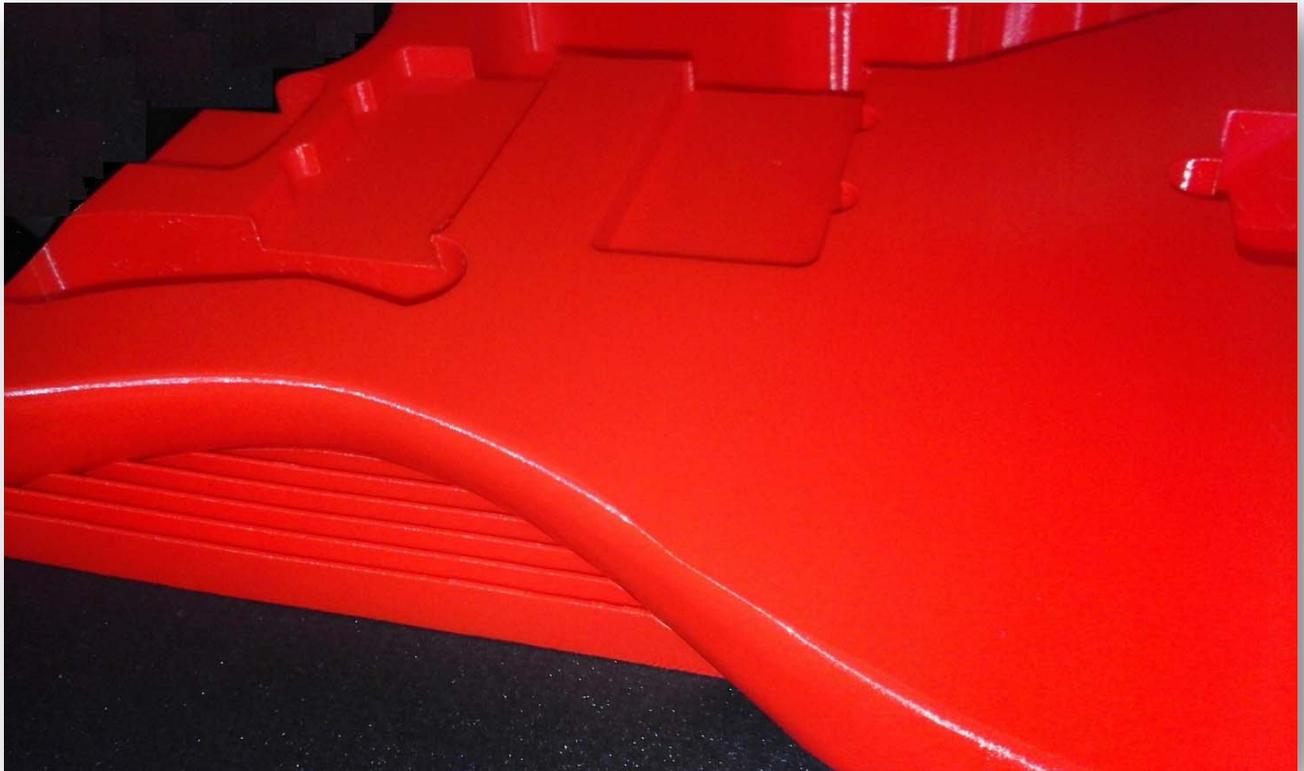
WHAT IS SLIDING-3D?

It is the brand-new 3D printer that uses the thermoplastic material extrusion technology, it is equipped with an "infinite" **building platform and 45° extruder.**



Sliding-3D machine

Exploiting at the same time the moving building platform, the inclination of the printing layers and the layers translational function, **Sliding-3D can reduce up to 100% the 'support structures' (for the 'overhangs') usually needed to print a 3D model.** This means the extraordinary benefit of saving time and material used for the same print and drastically reducing both the post-processing times (normally required for the removal of any support structures and finishing) that the plastic waste. Robot Factory S.r.l. approached to this project around two years ago with aim to reduce the plastic waste in 3D printing process and, at the same time, **to reduce post-processing time and costs.**



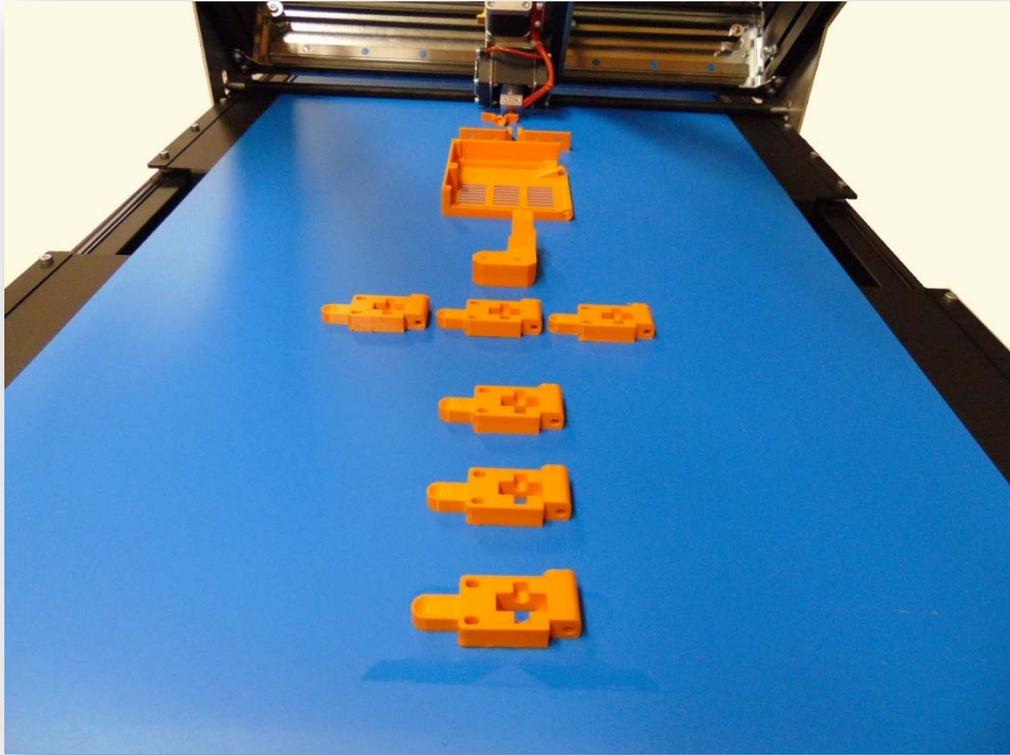
High-quality 3D print

Briefly, **Sliding-3D is the desktop 3D printer that allows you to print uninterruptedly, in less time and without waste of material, offering to companies new opportunities for the reorganization of their development and production processes.** As that Sliding-3D facilitates to build functional prototypes and parts for project validation, as well as to produce small series or long parts.

WHAT DIFFERS SLIDING-3D?

Sliding-3D is equipped with an "infinite" printing platform, which simplifies the production of small series, as well as the 3D printing of extremely long objects.

The distinguishing feature of Sliding-3D it is the **build volume (410mm x 380mm x ∞ - endless),** because the printing platform is a moving belt, this means it can be engaged in an **"uninterrupted" work cycle.** This makes Sliding-3D particularly suitable both for serial production of small items as well as for 3D printing of large objects.



Continuous printing

Many other companies have developed solutions that require the use of large-dimensions 3D printers, but for restart the printing job all these solutions need that an operator will be present in order to remove the printed parts, to clean the printing platform and to prepare the printer again.

When a continuous printing-batch is launched on Sliding-3D, any time that a job is completed, another job will be started, and printing goes on. During the printing job the belt goes forward until the printed object rolls off the belt and you can collect the items in a basket under the front roller. This powerful tool allows you to quickly produce new 3D models 'in series'. So **Sliding-3D can be used as a sort of "desktop factory", since objects can be printed "continuously", thus allowing a "mass" production.**

WHY YOU SHOULD CHOOSE SLIDING-3D

Until a few years ago the **production processes** both for design and for development, required long and costly times, which were strictly dependent on the times of manual realization of the prototype that was usually commissioned to one or more craftsmen. In recent years, the **production cycle changes rapidly** adapting to: greater demand for **new products, customer requirements** and new features (**customization**), adoption of new ways of working, and allowing the release of new products more quickly and more frequently on the market.

Therefore new needs arise that require **flexibility and adaptation to changing market needs**. Increasingly reduced time to market requires companies to make choices aimed at reducing development time, this new scenario entails the need to create prototypes that are very faithful to the final product in a very short time compared to the past, to allow economic testing of new products and overcoming the design limitations that would be imposed by traditional CNC production.

Goal: rapid and continuous production of **ready-to-use 3D objects**

Solution: introduce **Sliding-3D** in own business context

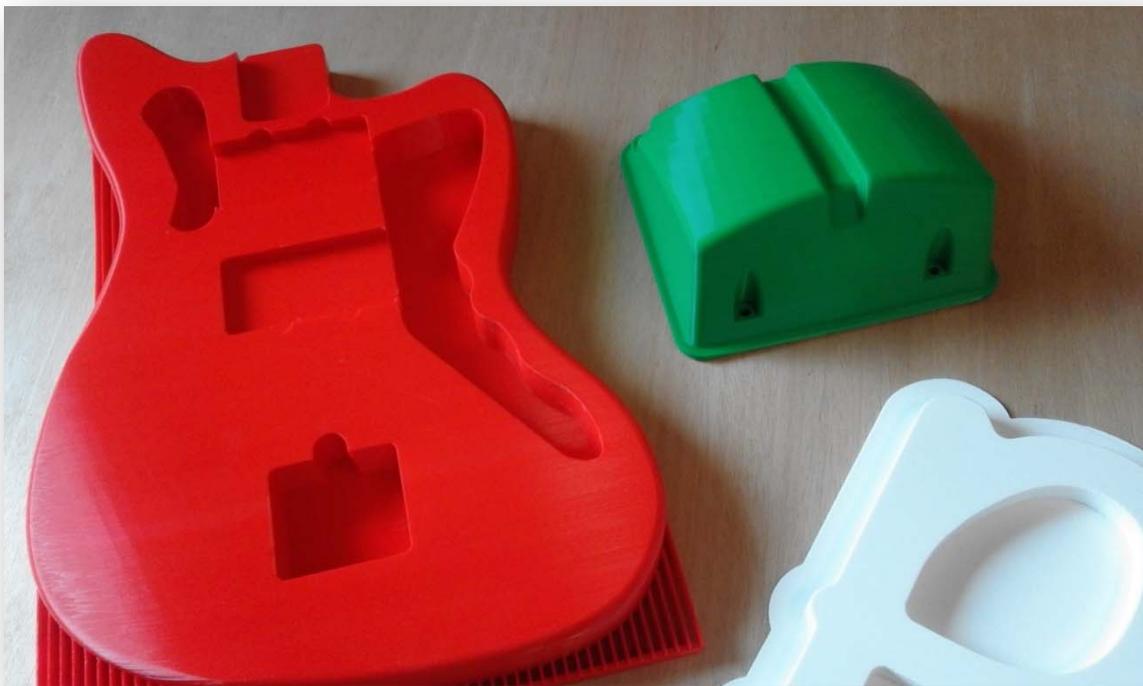
Key Benefits: drastic reduction of costs and **time to market**

To produce a new object, in any field of application, it implies starting with an idea, creating one or more prototypes and then mass-producing the final design to which the project has arrived. **Sliding-3D redefines the concept of 3D printing, because it is a high-quality product intended to support companies both in the development process, and in the production... allowing to significantly reduce the time-to-market.** So, it become a valuable tool, not only in the development phases of a new object, but also in the production of small series or unique pieces.

OUR CHALLENGE

Despite the appetite for change, many companies have not realized the full value of some of the new technologies. There is little confidence in the quality obtainable, also because many times the initial approach is oriented towards so-called 'consumer' products at low cost, when instead a relatively more important investment for a product aimed at a professional use of 3D printing can change significantly the result!

The confidence in the results is one of the decisive elements in the choice of a new technology and we of **Robot Factory** that we always direct our choices towards the creation of innovative products engineered with the utmost attention to detail, **we designed Sliding-3D with particular attention to the mechanical precision and the rigidity of the system, to guarantee high precision in the printing result and an unmatched surface finish (compared with other printers that use the same plastic extrusion technology).**



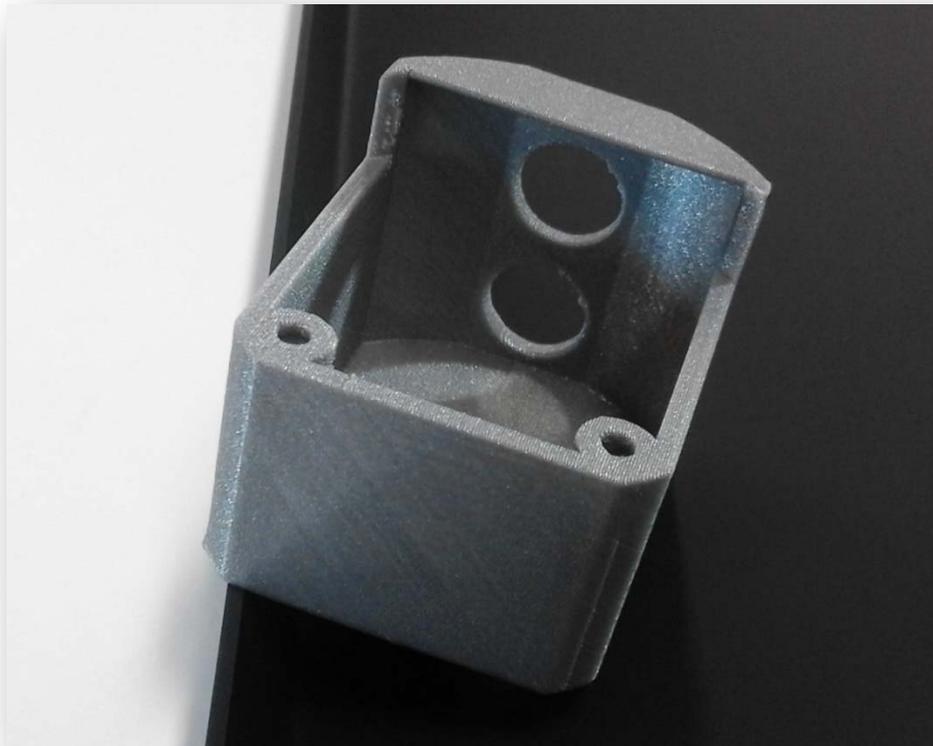
Awesome surface

A product designed to meet different application needs, ranging from accurate and detailed prototypes, to the creation of tools **to support production processes**, to ready-to-use products.

AN ECOLOGICAL CHOICE ... TOWARDS A MORE INTELLIGENT AND SUSTAINABLE USE OF PLASTIC MATERIALS

It is now well known: **the disposal of plastics has become a problem not to be underestimated**. Plastic is a difficult material to recycle, despite the separate collection, the amount of plastic waste that is produced at the domestic level, as well as companies, industries and hospitals, it is a significant amount. The plastic that accumulates ends up in rivers, then in the seas and finally in the oceans, with catastrophic consequences for the ecosystem. We must therefore try in every way **to reduce plastic waste**.

Sliding-3D drastically reduces the needed material for print and at the same time reduces plastic waste (those generated when the 'support structures' are removed), furthermore, reducing the printing times, it reduces the energy consumption required by the printing process.



No waste!

Still on the **subject of eco-sustainability**, the selection of materials tested and used on 'Sliding-3D' is oriented towards **biodegradable plastics**, such as the common PLA (biodegradable and compostable), a polymer derived from plants such as corn, wheat or beet; or PETG (polyethylene terephthalate), a non-toxic resin (compatible for contact with food) and easily recyclable; or other **"ECOLOGICAL" materials** of new generation, more and more used in the realization of products through the use of rapid prototyping machines.

The use of Sliding-3D helps your company to reach a Sustainable Manufacturing Process.

Reduction of Manufacturing cost - Reduction of Energy consumption - Reduction of Plastic Waste

More information: http://www.robotfactory.it/en/sliding-3d_en/