



## *Sliding - 3D*

### Your smart choice, for great results!

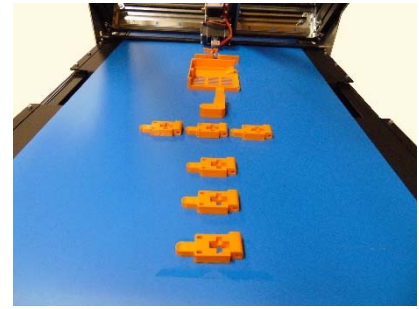
Developed and produced by **Robot Factory**, a company based in Italy that since 2011 offer **professional 3D printers** at affordable prices, the **Sliding-3D** has many features that can attract the most demanding users, firstly, the **printing plane 'to infinity'**, to make easy the production of **small series** and 3D printing of **long items** (theoretically unbounded in length). Firstly let's talk about the most distinguishing feature of this machine: the **build volume** is **410mm x 380mm x ∞** (endless), which means you can handle a uninterrupted work cycle to make prints of various 3D objects, with any 3D print length that you can imagine. The machine is supplied with a convenient **External Pad** that allows you to manage the printing job even without a computer connection.

The heated bed improves the print quality by keeping the extruded polymer warm and preventing warping. The **extruder** can reach **280 °C**, allowing you to print in all common materials such as **PLA, Nylon, PETG** and **HIPS**, as well as **many others** currently available in the market.

The precision of **Sliding-3D** allows you to print starting from a **0.15mm** thickness **layer**. The machine comes with interchangeable **nozzles**: **0.4mm**, for finer details, and **0.6mm** for large, high speed prints (0.8mm and 1.0mm nozzles are also available).



**Here is how it works:** the machine is a non-orthogonal coordinate system in which the construction plane does not coincide with the adhesion plane of printing object. The **X-Y plane is inclined on the Z axis**. So, it prints any layers to a fixed angle from the Z axis. This feature, along with **Z axis that is a moving belt**, it allows the printing plane shifts itself continually with respect to the extruder. This one is inclined in turn (at a fixed angle) relative to the plane. This system allows you to print 'in a continuous way'.



This makes the use of **Sliding-3D** suitable in a wide range of productions, to obtain quality 3D models with high stability. Its technology can create accurate **functional prototypes, manufacturing aids, customized objects, medical aids**, parts for **design checks**, including for mechanical engineering, because it is suitable both for **serial production of small items** as well as for 3D printed **large objects**. The **supporting structure** is made using structural aluminum profiles, stainless steel, prismatic guides with double ball bearing, it ensures **precision** and **rigidity** to the system, this means high accuracy in the printing results.

3D printing using **Sliding-3D**, in most cases it also has the advantage (not least) do not require **any 'support structure'**, allowing to greatly reduce printing time and material use, because it will take advantage of self-supporting angle. Furthermore, the generation of inclined printing layers, it considerably increases the internal forces between the material layers, conferring **better mechanical properties** to the printed model.

The recommended software for Sliding-3D is **the Simplify3D suite**, for this one, we supply the configuration and a specific program to generate the correct inclination of the printing layers after the **slicing** of the 3D drawing (possible inclinations: 45° - default / 35° / 25°).



**TECHNOLOGY:** FFF (Fused Filament Fabrication)  
**BUILD VOLUME:** 410mm x 380mm x ∞ (endless)  
**MACHINE SIZE:** 1.100mm x 570mm x 770mm  
**LAYER THICKNESS:** 0.15 – 1.0 mm  
**FILAMENT SIZE:** 1.75mm  
**FILAMENT TYPE:** PLA/Nylon/HIPS & others  
**WEIGHT:** 36 kg  
**CONNECT:** USB - SD Card  
**CONTROL DEVICE:** External Pad  
On demand: Color LCD display - Touch screen – WiFi

**Sliding - 3D**

by

**Robotfactory**

**Robot Factory S.r.l.**

Via Caltana, 59

Mirano (VENEZIA) - ITALY

Tel. +39 (0)41 5770270

Mob.: +39 3387159853

Email: robot@robotfactory.it

Web: www.robotfactory.it