



## *Sliding - 3D*

### **Main points that differentiate Sliding-3D compared to the other FFF (Fused Filament Fabrication) 3D printers**

- ✓ **The most distinguishing feature:** the **build volume** is **410mm x 380mm x ∞** (endless), because the printing plane is a moving belt, this means that an "uninterrupted" work cycle can be managed. This makes **Sliding-3D** particularly suitable both for **serial production** of small items as well as for 3D printing of **large objects**.
- ✓ The **load-bearing structure**, engineered using aluminum structural profiles, stainless steel and prismatic guides with double recirculating balls carriage, it guarantees **precision and rigidity to the system**, which means high precision in the printing result.
- ✓ The printing layers are generated **inclined by 45° to the printing plane**, this feature entails multiple advantages:
  - In most cases, 3D printing using Sliding-3D it does not require any "**support structure**" (this means considerably reduce printing times and the used material), since with a minimum of experience, in design phase you can exploit the self-supporting corner (45°) of the 3D design.
  - The printing Layers, inclined with respect to the printing plane, **give greater rigidity to the printed model** (compared with a printed model with the same layer thickness, the same nozzle size and the same material), since it considerably increases the internal forces between the layers of material, giving to it better printing mechanical properties.

- The **surface quality**, especially of the base (part in contact with the Z axis), **is not affected by the usual problems** of the printers with 90° extrusion on the fixed plane, and it is considerably better, as the **external surface** is better than the surface finish obtainable with **classic FFF printers** (compared with a printed model with the same layer thickness, the same nozzle size and the same material).
  
- ✓ The **printing plan** is produced using a special composite material, it does not require any preparation (spray, lacquer, or other), because **it prevents the possible detachment** of the model during the printing phase and favors the detachment at the end of printing phase.
  
- ✓ **Sliding-3D** is an "**Eco friendly**" 3D printer, because, not requiring any "support structure" in most cases **it reduces the need of material** and also reduces the plastic waste (removed supports), as well as the energy consumption in the printing process, this makes it a 3D printer with a "**reduced environmental impact**". Furthermore, not requiring any preparation (spray, lacquer, or other) on the printing plane, it further reduces the environmental impact.
  
- ✓ The 'transaction program' **to manage the inclination of the printing layers**, it is supplied with the **Sliding-3D**.
  
- ✓ Supplied with **Sliding-3D** the configuration (Profile) to use the **Simplify3D** management program.
  
- ✓ Cover - on request it is available a **protective box** made using in aluminum profiles and transparent polycarbonate, suitably engineered to respect the functional characteristics of this 3D printer and to create a controlled temperature environment.
  
- ✓ **One-year warranty.**
  
- ✓ Declaration of **EC conformity.**



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