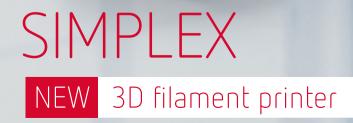


making work easy



USE MENU ACHSEN SETTINGS

4



NEW SIMPLEX

3D filament printer

SIMPLEX is a dental 3D-filament-printer. With the slicer software, which was specially developed for the dental sector, you can print models, which do not pose a risk to health, easily and reliably via the "Plug and Print" concept. The SIMPLEX 3Dfilament-printer-system covers the entire range of orthodontic model fabrication. With its high dimensional accuracy, the SIMPLEX 3D-filament-printer ensures consistent, reproducible results. The 3D models produced do not require any post-processing.

Advantages

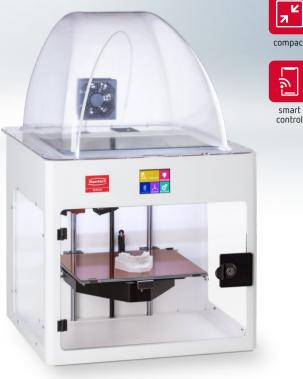
- Easy to use thanks to "Plug and Print" concept.
- Level resolution up to 50 µm grants precise results.
- Pleasant working with low noise level \leq 49 dB.

Details

- SIMPLEX consisting of: SIMPLEX 3D filament printer, SIMPLEX sliceware, SIMPLEX print, SIMPLEX study model, Renfert CONNECT app.
- Process reliability thanks to filament monitoring system and automated troubleshooting.
- Intuitive touchscreen navigation.
- Safety thanks to closed building chamber, lockable door, and removable cover.
- Heatable print bed: optimal adhesion and simple cleaning.
- Simple handling thanks to removable print platform.
- Optimal communication between PC and printer via Wi-Fi (currently EU and USA).
- Working with filaments that are harmless to health.

Technical data

Use	Fused Filament Fabrication (FFF)		
Permissible mains voltage	90-264 V		
Permissible mains frequency	50/60 Hz		
Temperature range (Nozzle)	180-260 °C // 356-500 °F		
Temperature range (Print bed)	50-110 °C // 122-230 °F		
Layer resolution	≥50 µm		
Number of extruders	Single		
Type of extruder	All-Metal Hotend		
Printing speed	50-200 mm/s		
Position precision	4 x 4 x 2 μm		
Weight (empty)	~16,3 kg // ~35.94 lbs		
Dimensions (W x H x D) (Build volume)	250 x 200 x 200 mm // 10 x 8 x 8"		
Dimensions (W x H x D) (Housing)	406 x 350 x 385 mm // 16 x 14 x 15.2"		
Dimensions (W x H x D) (Device, exterior size)	415 x 500 x 635 mm // 16.3 x 19.7 x 25"		
Diameter (Nozzle)	0,4 mm // 0.0016"		
Diameter (Filament)	1,75 mm // 0.0689"		





SIMPLEX sliceware is already installed with presets for orthodontic use

Ordering information

SIMPLEX with Wifi	No. 17350000
SIMPLEX	No. 17351000



NEW SIMPLEX Filaments

Filament for orthodontic model fabrication

The high-quality special filaments are suitable for the specific requirements of the dental industry: they have excellent mechanical and physical properties and do not pose a risk to health. The high consistency and dimensional accuracy of the filaments enable detailed print quality. You receive a defined filament selection designed for the respective area of application.

Advantages

- Work at a high level with high quality materials.
- Work reliably with a selection of filaments matched to the indication area and printer.
- Time-saving and health-friendly fabrication of 3D models
 no post-processing, no cleaning, no curing.

Details

- 100% free from irritants no harmful vapors during printing process.
- Biofilament is recyclable and industrially compostable.
- Excellent mechanical and physical printing properties such as layer and print bed adhesion.
- High-quality, process-stable printing and detailed print result thanks to uniform diameter (1.75 mm) and roundness along the entire length of the filament.
- No post-processing with chemicals and curing unit necessary.
- Sustainable, environmentally friendly, and cost-effective printing.
- Colorfast, UV-resistant.
- Made in Germany.





Designed for complete orthodontic model fabrication



The model can be used as usual without the need for any post-processing

Accessories

3D Filament printing

SIMPLEX study model	The bio filament SIMPLEX study mo- del offers high detail reproduction and sharpness for precise planning and di- agnostic models. Promotes pleasant working, thanks to having no irritating components. Does not produce unplea- sant vapors during the printing process, is recyclable and industrially composta- ble. Printing temperature: 190–230°C For SIMPLEX	Bio filament Ø 1.75 mm, 1 x 800 g, white	No. 17350100
SIMPLEX working model	The biofilament SIMPLEX working mo- del is designed for the digital produc- tion of working models and offers high detail reproduction. Promotes pleasant working, thanks to having no irritating components. Does not produce unplea- sant vapors during the printing process, is recyclable and industrially composta- ble. Printing temperature: 190–230°C For SIMPLEX	Bio filament Ø 1.75 mm, 1 x 800 g, viridian green	No. 17350200
SIMPLEX aligner model	The special filament SIMPLEX aligner model is tailored to the special requi- rements of aligner production and the thermoforming technique*. Promo- tes pleasant working, thanks to having no irritating components. Generates no unpleasant vapors during the printing process. No post-processing, no an- nealing required. Printing temperature: 235–255°C *excluded: Zendura Clear Aligner & Re- tainer Material For SIMPLEX	Heat-resistant special filament Ø 1.75 mm, 1 x 800 g, white	No. 17350300
SIMPLEX multi-use model	The bio filament SIMPLEX multi-use model provides a natural surface effect with its high hard-gypsum content. Of- fers high detail reproduction. Promotes pleasant working, thanks to having no irritating components. Does not produce unpleasant vapors during the printing process, is recyclable and industrial- ly compostable. It can be optimally wor- ked with rotary instruments or a scal- pel. Printing temperature: 205–220°C For SIMPLEX	Plaster filament Ø 1.75 mm, 1 x 800 g, wplaster white	No. 17350600