

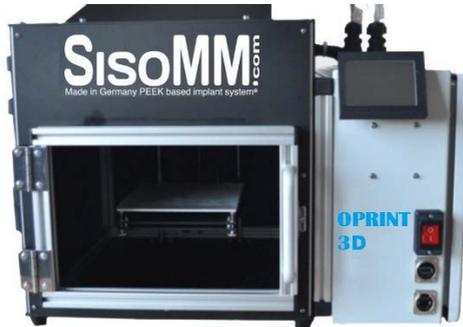
3D PEEK-PRINTER OPRINT3

«for experimental use»

3D PRINTER specially adapted to **PEEK** dental technicians
and dentist's offices

The 3D printer **OPRINT3** prints in some minutes,

several pieces at once, your stl-files in high temperature polymer material (PEEK-filament), bioinerte, biocompatible and sterilizable..



Constructed for printing PEEK, isoelastic to bone, with excellent behaviour in prosthodontics.

You may benefit from our PEEK-PERSONAL-staff's know-how and years of experience.

We offer a customized solution in PEEK also for head and neck surgeons to replace metals.

Advantages of the 3D printing process for PEEK Vs other manufacturing processes:

3D printing uses an addition method, as opposed to the other manufacturing methods such as injection moulding or CNC milling. Our process builds up the object layer by layer, while in the subtractive manufacturing method the object is machined out of a block, resulting in waste materials.

One-Click:

The user-friendly one-click method makes an intensive study of the machine (3D printer) unnecessary, in contrast to other manufacturing processes. You benefit from our expertise, take our settings directly and print your STL-files !

Material saving:

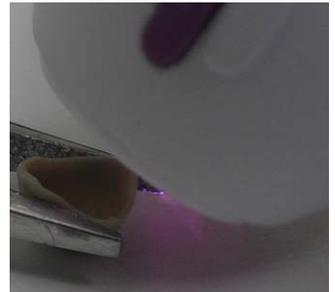
Subtractive manufacturing processes produce much waste. Additive manufacturing processes such as 3D printing produce no waste of material due to production. It is therefore a cost-efficient manufacturing process with a very small stock. Our procedure is unique in the world and patented!

Purchase cost:

Considering the low waste costs, the shorter worktime, less use of instruments, with surfaces easy to condition for best bonding with our plasma source OPLASMA the OPRINT3 procedure is hyper effective.

Short preparation time:

After a short set-up time the machine is ready to produce parts.



Low maintenance costs:

SisoMM 3D printer is low maintenance, quick to repair, if ever necessary, and easy to clean; solution for problems guaranteed in 48H, eventually exchange of machine, (+ the time for carrier to abroad); gratis in 12 months guarantee.

Description:

Completely closed chamber, built with parts made from non-reactive metals, which guarantee a well defined temperature profile during the entire printing process.

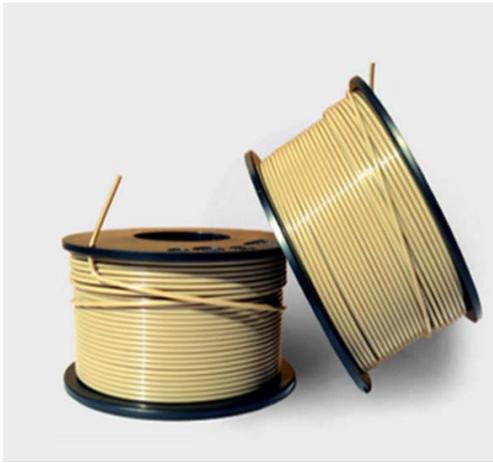
The hot end and nozzle have been specially developed for PEEK printing, allowing temperature up to 420° C.

Special heat-bed for optimum adhesion of the PEEK material.

Special software for PEEK: One-Click-Procedure PEEK printing.

Print volume: 155mm x 155mm x 155mm

Filament adapted to be used as medical device



In the 3D Printing fused deposition modeling technology, materials are used in filament form with typical diameters of 1.75mm.

Our filament is fed into an extruder device heated at the discharge region to temperatures sufficient to melt the filament material.

In the melted form the material is then discharged by the nozzle on to a free surface in a layer by layer fashion until a 3-dimensional structure is built, eventually at some different locations to do several print jobs at once.

In order to let you profit from our technology, we offer sterile or clean polymers as filament which make possible the application of 3D FFF printing across different needs in the prosthodontics.

Printed PEEK-devices can be overprinted by further materials

we deliver the necessary filaments on your demand.

General information	
Type	Custommade product
Assembled or kit	Assembled
Technology	Fused Filament Fabrication (FFF)
Material	PEEK and all high melting temperature polymers
Performance	
Build volume	155 x 155 x 155 mm
x / y resolution	0.5 mm
z resolution	0.1 mm
Reproducibility	0,1 mm
Minimum layer thickness	100 µm
Maximum later thickness	400 µm
Print speed optimum for PEEK	10 - 30 mm / sec
Material	
Number of extruders	1
Nozzle diameter	0.4 mm
Filament diameter	1.75 mm
Print bed	Heated up to 120° C
Connectivity	USB, SD Card, Ethernet
Technical Features	
Full Metal HotEnd with heating up to 420° C (making it possible to print all high temperature thermoplastic polymers)	
Integrated water cooling system for HotEnd sinking and motor cooling	
Build chamber	

info@sisomm.com
www.en.sisomm.com

SisoMM® bvba
BELFIUS IBAN: BE78068891174086
BIC: GKCCBEBB
BE/CA01/1-06602-MDD

Genkersteenweg 470,
B- 3500 Hasselt,
Belgium
BE 0829928436

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