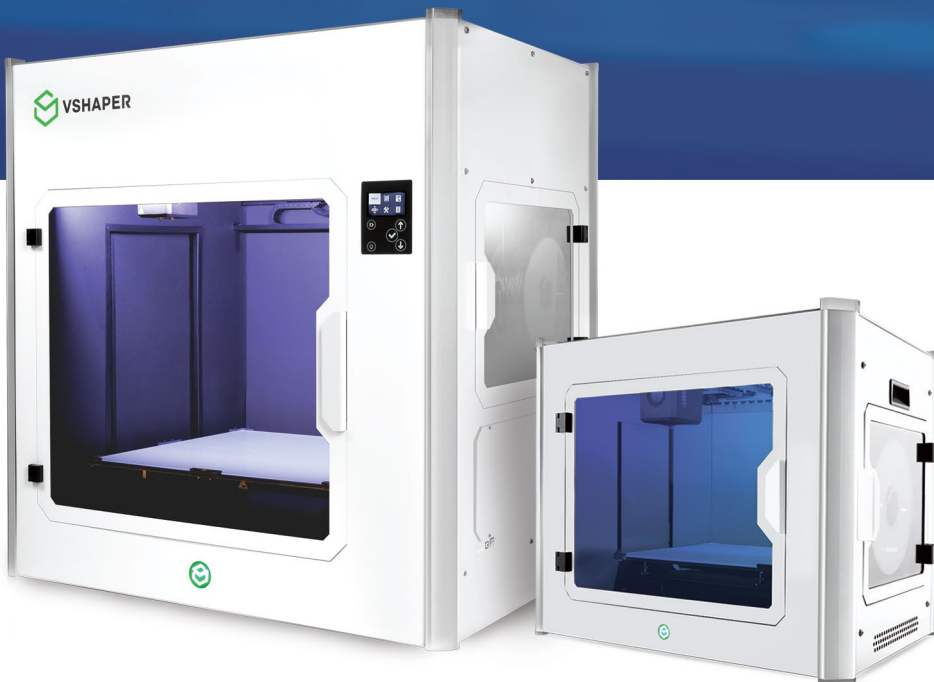


VSHAPER MED

According to experts additive manufacturing is one of the techniques that will revolutionize the world of medicine. It is already used to aid the creation of dental crowns, bone parts, blood vessels and hip-joints prosthetics.

This type of prints enhance the preparation for surgery, even if they are not used in the procedure. More and more surgeons choose to practise on 3D Printed models in preparation for a complicated operation.

3D Printing is also used in aesthetic surgery, prosthetics and transplantation. With the use of 3D Prints it is possible to create perfectly fitted tooth crown, lighter and more hygienic cast counterpart as well as innovative bone prosthetics, enabling the substitution of body parts damaged in accidents or by complications from cancer.



VSHAPER is the best available 3D Printer able to print high-performance polymers.

Rielson Falck
Helmholtz-Zentrum Geesthacht

- > Isolated heated chamber
- > Printing temperature 450°C
- > Door lock
- > Heated table

Technical specification

Printing Parameters

- Printing technology ●
- Workspace ●
- Resolution ●
- The accuracy of the position of layers ●
- Positioning accuracy ●
- Extruder ●
- Print temperature ●
- Nozzle diameter ●

Working chamber

- Construction ●
- Heating ●
- Sterilisation ●
- Ventilation ●
- Door lock ●

Working platform

- Area ●
- Heating ●

Filament

- Filament diameter ●
- Filament feeding accuracy ●
- Automatic control of the beginning and the end of filament ●
- Recommended materials ●

Mechanical and electrical parameters

- Construction ●
- Housing ●
- Z axis ●
- XY axis ●
- Engines ●
- The volume of noise during printing ●
- Power supply ●

Control

- Processor ●
- Touch panel ●
- Display ●
- Interfaces ●

Software

- Files ●
- Control software ●

- Operating system ●

Dimensions and weight

- External dimensions ●
- Weight ●

VSHAPER 270 MED

Fused Filament Fabrication
270 x 270 x 200 mm
0.05 mm - 0.3 mm
30 µm
XY 11 µm / Z 2 µm
Single head **VPREC-PRO** or **VPREC-DOUBLE**
Max 450°C
Standard: 0.4 mm nozzle
(Optional: 0.2, 0.6, 0.8, 1.0, 1.2)

Closed (with constant temp. inside),
made of stainless steel
Yes (active heating up to 70°C)
Yes (UV light)
Yes (with HEPA filter)
Yes

Hardened glass (with plastic surface)
Yes (build platform temperature up to 150°C
– ideal material adhesion)

1,75 mm
1 µm
Yes

PEEK, PPSU or PLA, PLLA, ABS, PMMA, PA, PC,
PET-G, HIPS, PVA

Powdered steel
Silver-based antibacterial powder coatings
Ball screw
Linear guides
NEMA17
< 45 dB
100-240V ~ 2A, 50-60 Hz

LPC1769 - ARM® Cortex®-M3 MCU 32 Bit
Yes
Monochrome (128 x 64 px)
USB, SD Card, Ethernet

.obj .stl .amf .dae

SOFTSHAPER

Four-step code creation:
• Load model
• Set printing parameters
• Generate
• Confirm

Windows (7/8/10), Mac OSX (10.8/10.9),
Linux (Ubuntu 10.04+)

590 x 462 x 463 mm
37 kg

VSHAPER 450 MED

Fused Filament Fabrication
450 x 450 x 450 mm
0.05 mm - 0.3 mm
30 µm
XY 11 µm / Z 2 µm
Single head **VPREC-PRO** or **VPREC-DOUBLE**
Max 450°C
Standard: 0.4 mm nozzle
(Optional: 0.2, 0.6, 0.8, 1.0, 1.2)

Closed (with constant temp. inside),
isolated chamber
Yes (active heating up to 70°C)
Yes (UV light)
Yes (with HEPA filter)
Yes

Hardened glass (with plastic surface)
Yes (build platform temperature up to 100°C
– ideal material adhesion)

1,75 mm
1 µm
Yes

PEEK, PPSU or PLA, PLLA, ABS, PMMA, PA, PC,
PET-G, HIPS, PVA

Powdered steel
Silver-based antibacterial powder coatings
Ball screw
Linear guides
NEMA17, NEMA23
< 45 dB
100-240V ~ 2A, 50-60 Hz

LPC1769 - ARM® Cortex®-M3 MCU 32 Bit
Yes
Monochrome (128 x 64 px)
USB, SD Card, Ethernet

.obj .stl .amf .dae

SOFTSHAPER

Four-step code creation:
• Load model
• Set printing parameters
• Generate
• Confirm

Windows (7/8/10), Mac OSX (10.8/10.9),
Linux (Ubuntu 10.04+)

910 x 660 x 1890 mm
160 kg