

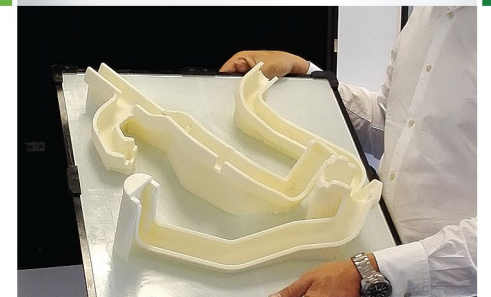
# VSHAPER 450

A printer that stands out with 450/450/450 mm workspace and the choice of patented extruders: VPREC-SINGLE or VPREC-DOUBLE allowing the use of two materials in one printing process.

This innovative technological solution ensures the efficient creation of large objects and prototypes, whereas closed printing chamber and heated platform guarantee high quality of 3D Prints.

The printer is particularly appreciated in automotive industry, in small-lot production.

Used in the process of additive manufacturing, ABS as basic material together with HIPS as soluble support material allow you to create remarkably complicated details with unique precision. The ability to craft complicated three-dimensional objects in a single process is widely popular among producers who previously used traditional shaping and cutting.



*VSHAPER printers enable us to retain flexibility and independence. We can reduce the cost of production, which gives us an advantage over competition.*

*Grzegorz Stępień, R&D Technologist  
BORG Automotive*

› Workspace 450x450x450

› 0.2-1.2 mm Nozzle Diameter

› Heated Table

› Closed Chamber

## 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 ●
- Ventilation ●

### 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 450 SINGLE

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-SINGLE**  
Max 300°C  
Standard: 0.4 mm nozzle  
(Optional: 0.2, 0.6, 0.8, 1.0, 1.2)

Closed (isolated, with constant temp. inside)  
Yes (active heating up to 70°C)  
Yes (with carbon filter)

Hardened glass with plastic surface  
Yes (build platform temperature up to 130°C – ideal material adhesion)

1,75 mm  
1 µm  
Yes

PLA, ABS, PMMA, PA, PC, PET-G, HIPS, PVA

Powdered steel  
Powdered aluminium + anodized aluminium  
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  
150 kg

## VSHAPER 450 DOUBLE

Fused Filament Fabrication  
450 x 450 x 450 mm  
0.05 mm - 0.3 mm  
30 µm  
XY 11 µm / Z 2 µm  
Double head **VPREC-DOUBLE**  
Max 300°C  
Standard: 0.4 mm nozzle  
(Optional: 0.2, 0.6, 0.8, 1.0, 1.2)

Closed (isolated, with constant temp. inside)  
Yes (active heating up to 70°C)  
Yes (with carbon filter)

Hardened glass with plastic surface  
Yes (build platform temperature up to 130°C – ideal material adhesion)

1,75 mm  
1 µm  
Yes

PLA, ABS, PMMA, PA, PC, PET-G, HIPS, PVA

Powdered steel  
Powdered aluminium + anodized aluminium  
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

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**SOFTSHAPER**  
Four-step code creation:

- Load model
- Set printing parameters
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- Confirm

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

910 x 660 x 1890 mm  
150 kg