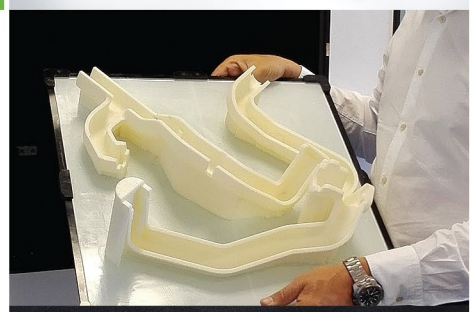
VSHAPER 450

A printer that stands out with 450/450/450 mm workspace and a patented extruder V-Port 4.0 with a dock for 2 heads V-JET 4.0, 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

VSHAPER 450

Printing Parameters	
Printing technology	Fused Filament Fabrication
Workspace	450 x 450 x 450 mm
Resolution	0.05 mm - 0.3 mm
The accuracy of the position of layers	30 µm
Positioning accuracy	XY 11 µm / Z 2 µm
Extruder	**V-Port 4.0** (dock for two heads **V-JET 4.0**)
Print temperature	Max 300°C
Nozzle diameter	Standard: 0.4 mm nozzle (Optional: 0.2, 0.6, 0.8, 1.0, 1.2)
Working chamber	
Construction	Closed (with constant temp. inside)
Heating	Yes (active heating up to 70°C)
Ventilation	Yes (with carbon filter)
Working platform	
Type	Vacuum table
Area	Removable polymer surface
Heating	Yes (build platform temperature up to 130°C – ideal material adhesion)
Auto leveling	Yes
Filament	
Filament diameter	1,75 mm
Filament feeding accuracy	1 µm
Automatic control of the beginning and the end of filament	YES
Recommended materials	PLA, ABS, PMMA, PA, PC, PET-G, HIPS, PVA
Mechanical and electrical parameters	
Construction	Powdered steel
Housing	Powdered aluminium + anodized aluminium
Z axis	Ball screw
XY axis	Linear guides
Engines	NEMA17, NEMA23
The volume of noise during printing	< 40 dB
Power supply	100-240V ~ 2A, 50-60 Hz
Control	
Processor	LPC1769 - ARM® Cortex®-M3 MCU 32 Bit
Touch panel	Yes
Display	Monochrome (128 x 64 px)
Interfaces	USB, SD Card, Ethernet
Operating system	Windows (7/8/10), Mac OSX (10.8/10.9), Linux (Ubuntu 10.04+)
Dimensions and weight	
External dimensions	910 x 660 x 1890 mm
Weight	150 kg