

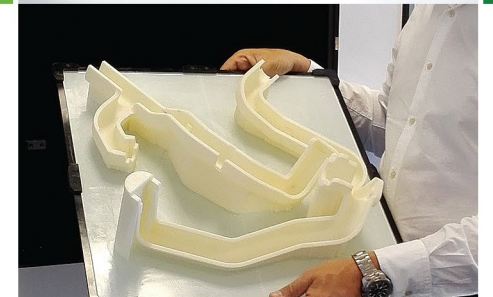
VSHAPER 450

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 mm
- > 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 (Optional: 0.2, 0.6, 0.8, 1.0, 1.2)

Working chamber

- Construction • Closed (with constant temp. inside)
- Heating • Yes
- Maximum temperature inside • 70°C
- Ventilation • Yes (with carbon filter)

Working platform

- Type • Vacuum table
- Surface • Removable plastic surface
- Heating • Yes
- Maximum temperature • 100°C
- 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, HIPS, PVA

Mechanical and electrical parameters

- Construction • Powdered steel
- Housing • Powdered aluminium + anodized aluminium
- Z axis • Ball screw
- XY axis • Linear guides
- Engines • Stepper motors
- The volume of noise during printing • < 40 dB (super silent)
- 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

Software

- Control software • **SOFTSHAPER**
- Operating system • Windows (7/8/10)

Dimensions and weight

- External dimensions • 910 x 660 x 1890 mm
- Weight • 150 kg