



MTP GOLD MEDAL 2018



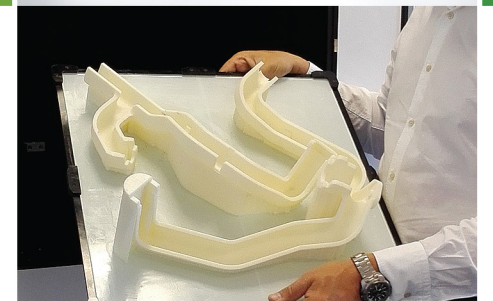
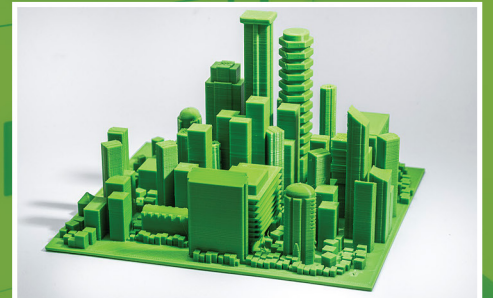
# VSHAPER 500

This industrial 3D Printer stands out with 430/430/450mm workspace and an extruder with a dock for two V-JET heads. This set of components allows making large-scale elements. Additionally, closed chamber together with a heated plate guarantee high quality of 3D Printouts.

The machine, which operates in FDM technology, is particularly appreciated in the industry, where it successfully supports prototyping, tool making and small lot production.

Cleaning module removes dirt during printing process, which is extremely important for continuity and cleanliness of the machine heads. Ventilation with a carbon filter reduces the amount and harmfulness of gas emission.

The V-PORT extruder, equipped with two heads, allows printing with two materials in one process. Using basic material together with as soluble support material in the process of additive manufacturing allows the user to create remarkably complicated large-scale elements with unique precision.



*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 430x430x450 mm

> Vacuum Table

> Isolated heated chamber

## Technical specification

## VSHAPER 500

### Printing Parameters

- Printing technology Fused Filament Fabrication
- Workspace 430 x 430 x 450 mm
- Resolution 0.05 mm - 0.3 mm
- The accuracy of the position of layers 30 µm
- Positioning accuracy XY 13 µm / Z 2.5 µm

### Extruder

- Maximum print temperature 300°C
- Nozzle diameter Standard: 0.4 mm (optional: 0.2, 0.6, 0.8, 1.0, 1.2)
- Filament diameter 1,75 mm
- Recommended materials HIPS, ASA, PET-G, PC-ABS, PA12, ABS, PA+CF, PA+GF, PC, PMMA
- Filament feeding accuracy 1 µm
- Automatic nozzle cleaning Yes

### Working chamber

- Construction Closed (isolated, with constant temp. inside)
- Heating Yes
- Maximum temperature inside 100°C
- Ventilation Yes (carbon filter)

### Working platform

- Type Vacuum table
- Surface Removable plastic surface
- Heating Yes
- Maximum temperature 125°C
- Auto-leveling Yes (tensometric)

### Mechanical parameters

- Construction Powdered steel
- Housing Powdered aluminium + anodized aluminium
- Engines Stepper motors
- Transmission Linear guides, Ball screw

### Electrical parameters

- The volume of noise during printing < 40 dB
- Power supply 100-240V ~ 2A, 50-60 Hz

### Control

- Touch panel Yes
- Display Color
- Interfaces USB, Ethernet

### Software

- Control software **SOFTSHAPER**
- Recommended operating system Windows 10 - 64-bit

### Dimensions and weight

- External dimensions 105 x 80 x 190 cm
- Weight 230 kg

The above parameters may be altered without notice.