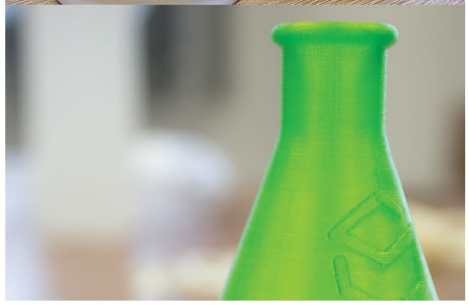
VSHAPER 270

A flagship VERASHAPE product, dedicated for industrial prints with PLA, ABS, PMMA, PA, PET-G, HIPS, PVA and PC, characterized by high quality of finish.

The printer features closed chamber ensuring equal temperature distribution, heated build platform guarantees perfect first-layer adhesion and ventilation with carbon filter reducing the emission of harmful gas.

Patented VPREC-SINGLE and VPREC-DOUBLE head allowing you to print with 0,2 up to 1,2 mm nozzles. Stable construction ensures failure-free uninterrupted printing in industrial environment.

The users of VSHAPER 270 emphasize the importance of closed printing chamber which ensures equal material shrinkage for the entire object, reducing the risk of delamination and warping of three-dimensional print.



Not everything needs to be machined on an expensive CNC machine. Big savings can be gained by 3D printing components or fixtures.

Gydo Keijzer
CAD/CAM Engineer - KCCPD

- Workspace **270x270x200**
- **300°C** Printing Temperature
- **Heated** Table
- **Closed** Chamber

Technical specification

	VSHAPER 270 SINGLE	VSHAPER 270 DOUBLE
Printing Parameters		
Printing technology	Fused Filament Fabrication	Fused Filament Fabrication
Workspace	270 x 270 x 200 mm	240 x 260 x 200 mm
Resolution	0.05 mm - 0.3 mm	0.05 mm - 0.3 mm
The accuracy of the position of layers	30 µm	30 µm
Positioning accuracy	XY 11 µm / Z 2 µm	XY 11 µm / Z 2 µm
Extruder	Single head **VPREC-SINGLE**	Double head **VPREC-DOUBLE**
Print temperature	Max 300°C	Max 300°C
Nozzle diameter	Standard: 0.4 mm nozzle (Optional: 0.2, 0.6, 0.8, 1.0, 1.2)	Standard: 0.4 mm nozzle (Optional: 0.2, 0.6, 0.8, 1.0, 1.2)
Working chamber		
Construction	Closed (with constant temp. inside)	Closed (with constant temp. inside)
Heating	Yes (passive heating)	Yes (passive heating)
Ventilation	Yes (with carbon filter)	Yes (with carbon filter)
Working platform		
Area	Hardened glass with plastic surface	Hardened glass with plastic surface
Heating	Yes (build platform temperature up to 130°C – ideal material adhesion)	Yes (build platform temperature up to 130°C – ideal material adhesion)
Filament		
Filament diameter	1,75 mm	1,75 mm
Filament feeding accuracy	1 µm	1 µm
Automatic control of the beginning and the end of filament	Yes	Yes
Recommended materials	PLA, ABS, PMMA, PA, PC, PET-G, HIPS, PVA	PLA, ABS, PMMA, PA, PC, PET-G, HIPS, PVA
Mechanical and electrical parameters		
Construction	Powdered steel	Powdered steel
Housing	Powdered aluminium + anodized aluminium	Powdered aluminium + anodized aluminium
Z axis	Ball screw	Ball screw
XY axis	Linear guides	Linear guides
Engines	NEMA17	NEMA17
The volume of noise during printing	< 45 dB	< 45 dB
Power supply	100-240V ~ 2A, 50-60 Hz	100-240V ~ 2A, 50-60 Hz
Control		
Processor	LPC1769 - ARM® Cortex®-M3 MCU 32 Bit	LPC1769 - ARM® Cortex®-M3 MCU 32 Bit
Touch panel	Yes	Yes
Display	Monochrome (128 x 64 px)	Monochrome (128 x 64 px)
Interfaces	USB, SD Card, Ethernet	USB, SD Card, Ethernet
Software		
Files	.obj .stl .amf .dae	.obj .stl .amf .dae
Control software	**SOFTSHAPER** Four-step code creation: • Load model • Set printing parameters • Generate • Confirm	**SOFTSHAPER** Four-step code creation: • Load model • Set printing parameters • Generate • Confirm
Operating system	Windows (7/8/10), Mac OSX (10.8/10.9), Linux (Ubuntu 10.04+)	Windows (7/8/10), Mac OSX (10.8/10.9), Linux (Ubuntu 10.04+)
Dimensions and weight		
External dimensions	590 x 462 x 463 mm	590 x 462 x 463 mm
Weight	35 kg	36 kg

VSHAPER®

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