

ZMORPH VX FULL SET



Complete desktop solution for multi-material rapid prototyping, crafts, and low volume production.

ZMorph VX is the most versatile and the most practical multitool 3D printer that you can put on a desk. With three different fabrication methods and dozens of available materials, ZMorph is designed to be your workhorse, versatile object making machine and a problem solver.

Unique features of ZMorph VX:

- 3D printing, CNC and laser, all in one machine
- Vast arrange of fabrication materials (see materials list)
- Interchangeable toolheads and worktables with easy switching procedure
- Top grade 3D printing with advanced two-material printing features, like image mapping and color blending
- Autocalibration
- LCD touchscreen
- Sturdy aluminum construction with high quality components, designed to withstand high torques of CNC milling and high speeds of 3D printing
- Enclosed build chamber with fully protected electronics
- Innovative Closed Loop System

Materials:

- 3D printing: ABS and derivatives, PLA and derivatives, PVA, PET, ASA, Nylon, HIPS, Thermochrome, TPU, Flex materials,
- CNC cutting and engraving: All kinds of wood, Polycarbonate, HDPE, Acrylic glas, Machining wax, Modeling board, Dibond-like composites, Copper laminates (for PCBs), POM, PVC foam,
- Laser engraving: All kinds of wood, Leather, Copper Laminate (for PCB),
- Laser cutting: Paper, Cardboard, Felt, Thin gasket materials,
- Thick paste printing: Chocolate, Cookie dough, Cream cheese, Frosting, Ceramics.

Applications:

- Functional prototypes
- Concept models
- End use parts and low volume production
- Lessons
- Tools, jigs and fixtures
- Signage and customization
- Architectural models
- PCBs
- Research
- Historical reconstruction
- Art and decor
- Molds and castings
- Medical visualisation aids
- Cosplay

ZMorph VX Full Set includes:

- ZMorph VX
- 1.75 mm Plastic Extruder with 0.3 mm nozzle
- Dual Plastic Extruder with Mixer hotend
- CNC PRO milling toolhead
- Laser PRO toolhead (2.8 W)
- Thick Paste Extruder
- Heated worktable for 3D printing
- CNC worktable for milling and cutting
- Printing fan add-on
- Spare extruder nozzle 0.3mm
- Dimafix fixative for 3D printing
- Tools and Maintenance materials
- 2 spools of PLA filament, 0.5 kg each

Specifications

ZMORPH VX FULL SET

Properties

Construction:	High precision sliding rails on X and Y axis, made from structural steel and stainless steel. Omron endstops, precisely machined aluminium X carriage, rigid and durable. Non-slip trapezoidal nuts on Z axis made out of high quality POM, add-on slot
Frame and Covers:	High quality aluminum 4 mm and 3 mm (precise and very rigid), stainless steel 2 mm and 3 mm. Covers made from 3mm PET
Work Area L x W x H:	250 x 235 x 165 mm/9.84 x 9.25 x 6.49 in (toolhead dependent)
Software	Compatible with: Voxelizer, Simplify3D, Cura, Slic3r
Communication:	USB and LAN (access to WiFi after plugging to WiFi router). Standalone printing supported via panel + internal SD card
Electronics	Sunbeam 3.0 with ARM LPC1769 processor, equipped with 5 stepper motor drivers: 3 for XYZ axis, 2 more for double material extruder. Internal disc drive accessible via USB
Heated Worktable:	super-flat, precisely machined working table with exchangeable borosilicate glass sheets with temperature up to 120 °C
Display:	LCD color touchscreen
Mechanical Positioning Precision:	14 microns for X and Y axes, 0.6 microns for Z axis
Layer resolution:	50 - 400 microns
Interchangeable Nozzles:	Included: 0.3 mm, Available: 0.2 mm, 0.4 mm
Interchangeable Toolheads:	Included: 1.75 Plastic Extruder, Dual Plastic Extruder, Laser, CNC, Thick Paste, Available: 3.0 Plastic Extruder
Interchangeable Worktables:	Included: Heated worktable for 3D printing, CNC worktable for milling and cutting
Calibration:	Tensometric autocalibration
Maximum 3D printing temperature:	250 °C
Other:	Silent X and Y stepper drivers - reducing motor noise by 50%, ER-11 collet in CNC Pro Toolhead, Laser Toolhead operating at 2.8 W power
Dimensions:	530 x 555 x 480 mm