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, Thermodrome, 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

<table>
<thead>
<tr>
<th>Properties</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Construction:</strong></td>
<td>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</td>
</tr>
<tr>
<td><strong>Frame and Covers:</strong></td>
<td>High quality aluminum 4 mm and 3 mm (precise and very rigid), stainless steel 2 mm and 3 mm. Covers made from 3mm PET</td>
</tr>
<tr>
<td><strong>Work Area L x W x H:</strong></td>
<td>250 x 235 x 165 mm/9.84 x 9.25 x 6.49 in (toolhead dependent)</td>
</tr>
<tr>
<td><strong>Software</strong></td>
<td>Compatible with: Voxelizer, Simplify3D, Cura, Slic3r</td>
</tr>
<tr>
<td><strong>Communication:</strong></td>
<td>USB and LAN (access to WiFi after plugging to WiFi router). Standalone printing supported via panel + internal SD card</td>
</tr>
<tr>
<td><strong>Electronics</strong></td>
<td>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</td>
</tr>
<tr>
<td><strong>Heated Worktable:</strong></td>
<td>Super-flat, precisely machined working table with exchangeable borosilicate glass sheets with temperature up to 120 °C</td>
</tr>
<tr>
<td><strong>Display:</strong></td>
<td>LCD color touchscreen</td>
</tr>
<tr>
<td><strong>Mechanical Positioning Precision:</strong></td>
<td>14 microns for X and Y axes, 0.6 microns for Z axis</td>
</tr>
<tr>
<td><strong>Layer resolution:</strong></td>
<td>50 - 400 microns</td>
</tr>
<tr>
<td><strong>Interchangeable Nozzles:</strong></td>
<td>Included: 0.3 mm, Available: 0.2 mm, 0.4 mm</td>
</tr>
<tr>
<td><strong>Interchangeable Toolheads:</strong></td>
<td>Included: 1.75 Plastic Extruder, Dual Plastic Extruder, Laser, CNC, Thick Paste, Available: 3.0 Plastic Extruder</td>
</tr>
<tr>
<td><strong>Interchangeable Worktables:</strong></td>
<td>Included: Heated worktable for 3D printing, CNC worktable for milling and cutting</td>
</tr>
<tr>
<td><strong>Calibration:</strong></td>
<td>Tensometric autocalibration</td>
</tr>
<tr>
<td><strong>Maximum 3D printing temperature:</strong></td>
<td>250 °C</td>
</tr>
<tr>
<td><strong>Other:</strong></td>
<td>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</td>
</tr>
<tr>
<td><strong>Dimensions:</strong></td>
<td>530 x 555 x 480 mm</td>
</tr>
</tbody>
</table>