

**Z** ZMorph 2.0 SX  
Multitool 3D Printer

# ZMorph 2.0 SX

With the new ZMorph 2.0 SX Multitool 3D Printer, we're ready to change the way you think about 3D printing, CNC milling, and laser engraving in digital fabrication, rapid prototyping, low volume production, and home crafting.

Aimed at both industry professionals and makers, this new machine is ideal for those who value high quality combined with versatility in an affordable desktop machine. The ZMorph 2.0 SX sets a new standard for multifunctional fabricators while retaining the 3D printing features that have made the ZMorph name famous for using both additive and subtractive manufacturing techniques.

ZMorph 2.0 SX prints, mills, cuts and engraves. It goes where ordinary 3D printers just can't go and still fits on your desk.

*This beautiful 3D printer belongs on a spaceship*

**THE VERGE**

*ZMorph's New Multifabrication Machine: Lasers, CNC and 3D Printing in a Sexy Box*

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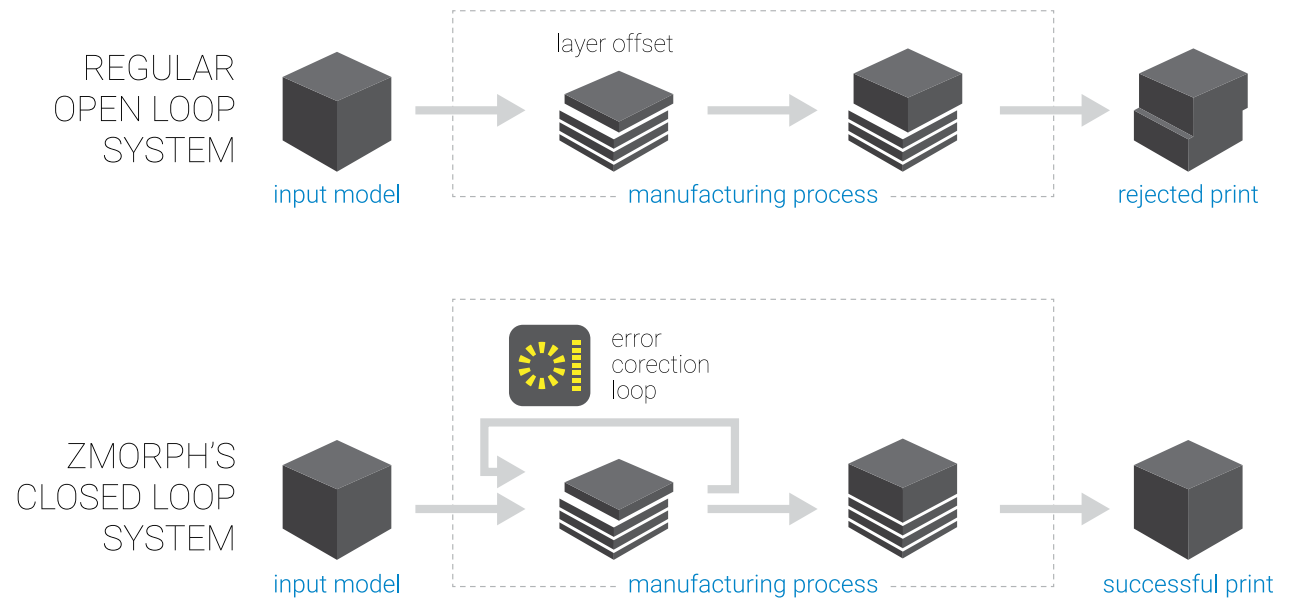
**SLASH**  
GEAR





# Closed Loop System

Introducing ZMorph's unique Closed Loop System. The system works like a guard - it monitors the printer and maintains precision at all times, especially when printing at high speeds, or CNC milling with high torque. It's reliability reimagined.



## LCD touchscreen and a completely new interface

We gave the 2.0 SX a capacitive LCD color touchscreen and a completely new interface to make desktop fabrication even more accessible. Basically, using a 3D printer feels now like using a smartphone or a tablet. Also, the new touchscreen allows you to control the printer without the need to connect a PC.

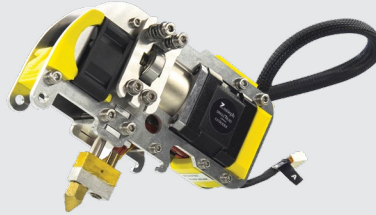
# Interchangeable toolheads and worktables



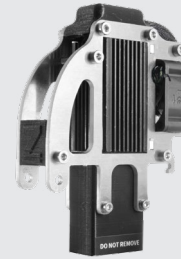
DUAL PRO Plastic Extruder



Plastic Extruder 1.75 mm



Plastic Extruder 3.00 mm



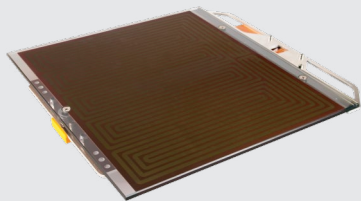
Laser Toolhead



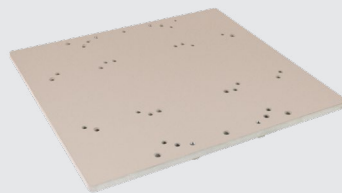
CNC PRO milling toolhead



Thick Paste Extruder



3D printing worktable



CNC worktable





# Outstanding versatility



## 3D printing

- ABS
- M-ABS
- PLA
- HIPS
- Flex materials
- PVA
- PETG
- Thermochrome
- Wood filaments
- Metal filaments
- Ceramic filaments
- Thick pastes  
(chocolate, cake,  
ceramics)
- And many more



## CNC cutting & engraving

- Plywood
- Beech
- Oak
- Maple
- Walnut
- Pine
- Chestnut
- Machining wax
- PCB
- Plexiglass
- PVC foam



## Laser cutting & engraving

- Plywood
- EVA foil
- Cardboard
- Leather

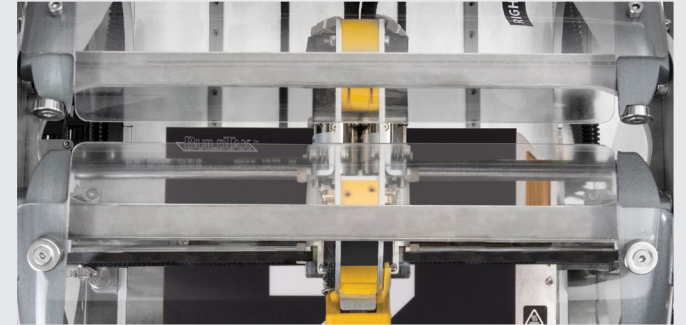




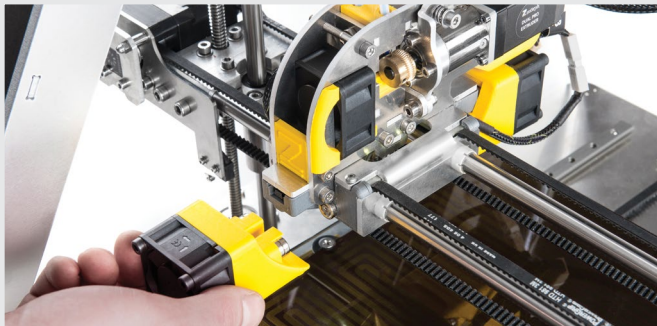
# Upgraded construction



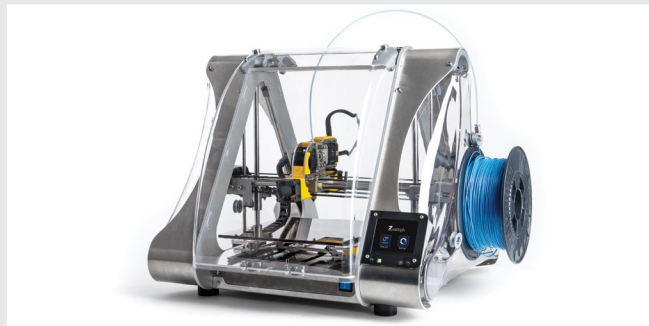
Precision-cut, perfectly fitted aluminum parts bring a new level of quality and durability to a well known ZMorph frame.



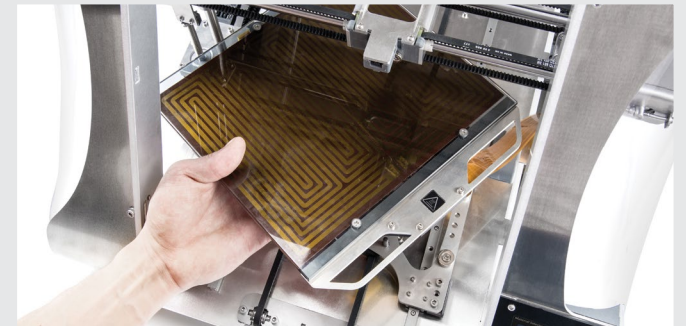
Improved top frame makes the whole construction more sturdy and safe from outside dangers, especially during high speed printing and CNC works.



Placed on the X carriage, new expansion slot can be used to connect additional fans, new touch probe and all future upgrades.



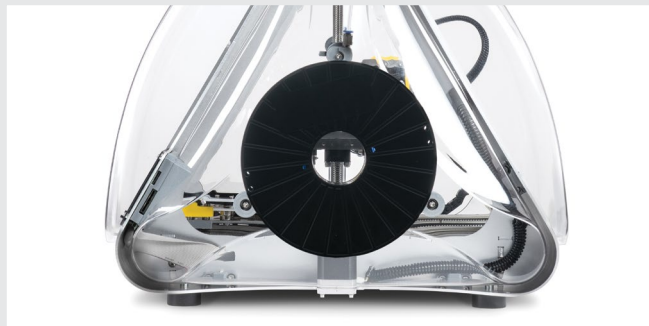
New front, back and sides see-through covers come in standard with every ZMorph 2.0 SX. They provide stable printing temperature, security and look amazing.



The new worktables simply click in, using a magnet mounting system. Going from 3D printing to CNC and laser has never been easier.



Top see-through covers with strong magnetic latches can be easily lifted or taken off and attached back.



Built-in filament holders on both sides of the machine hold filament spools and provide a steady flow of the material to the extruder.



Bowden cables for one and two-material 3D printing to secure your filament from external damage and feed it directly to the extruder.

# Tech specs

## Construction

- Aluminum 6 and 3 mm (precise and very rigid), stainless steel 2 mm and 3 mm, PET 3 mm and ABS.
- Interchangeable nozzles: 0.2 mm, 0.3 mm, 0.4 mm.
- Interchangeable toolheads.
- Interchangeable worktables.
- Add-on slot.
- Heated worktable: hardened glass 5 mm, silicone heater 140 W, temperature up to 120C.

## Dimensions

- Working area: 250 x 235 x 165 mm (toolhead dependent).
- Dimensions: 530 x 555 x 480 mm.
- Weight: 20 Kg with packaging (basic version).

## Positioning precision

- 14 microns for X and Y axis, 0.625 micron for Z axis.

## Resolution

- 50 - 400 microns.

## Electronics

- Sunbeam 2.0 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.

## Display

- Capacitive LCD color touchscreen.

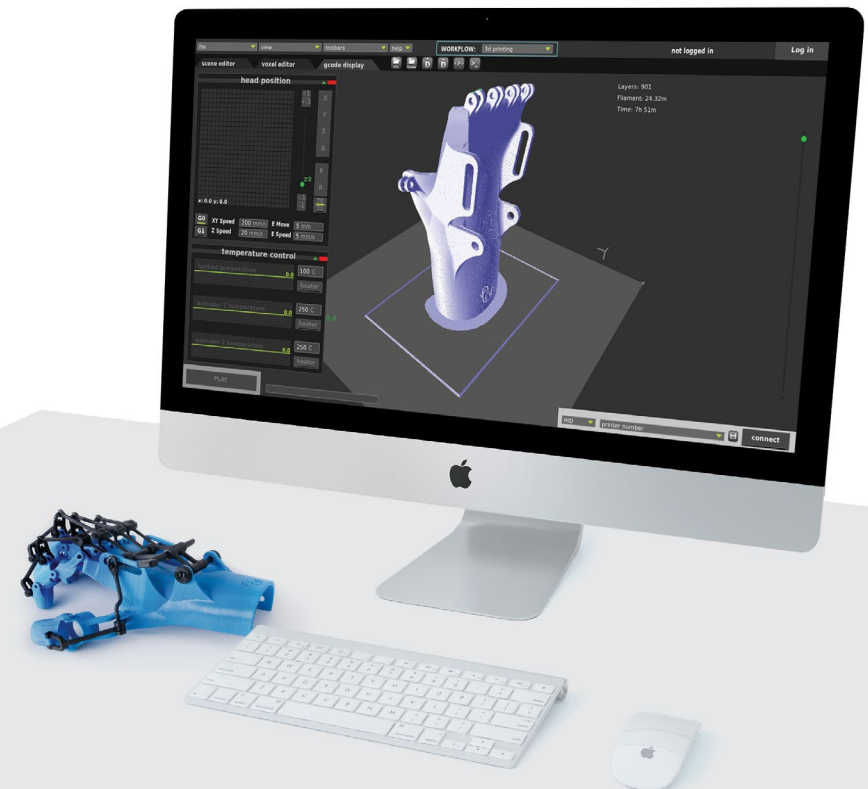
## Communication

- USB and LAN (access to WiFi after plugging to WiFi router).
- Standalone printing supported via panel + internal SD card.

# Dedicated Voxelizer Software


The only software that takes full advantage of ZMorph's versatility. Voxelizer supports .STL, .JPG, .DXF file formats and it's also compatible with DICOM medical files. It's able to generate G-codes from three-dimensional geometry, strengthen the weakest parts of the model, generate adaptive support structures and thicken fragile and weak parts selectively. In Voxelizer you can perform editing on the spot by adding, cutting and resizing parts of the object, applying filters and more.

Supported OS:  






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