

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.

The sheer variety of tool heads the ZMorph 2.0 SX provides is stunning, and the results lived up to expectations. (...) If you are looking for a single machine to do it all, look no further. (Vol. 54)

Make:

This beautiful 3D printer belongs on a spaceship.

THE VERGE

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

 **Fabbaloo**

If you're looking for a more capable fabrication station, ZMorph should definitely be on your list.

 **DIGITAL TRENDS**

Best All-in-one 3D printer 2016. Although it looks like a simple RepRap from afar, this is a great tool and possibly the best in the all-in-one 3D printer class.

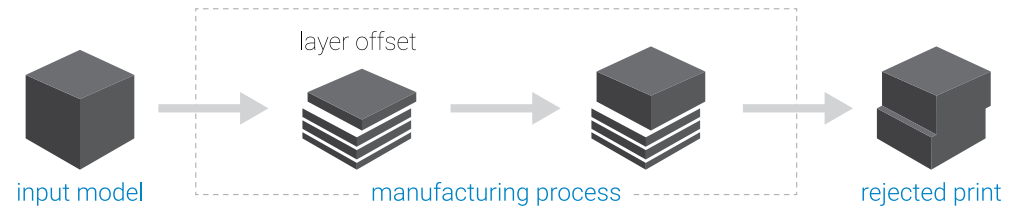
 **ALL3DP**
ALL ABOUT 3D PRINTING



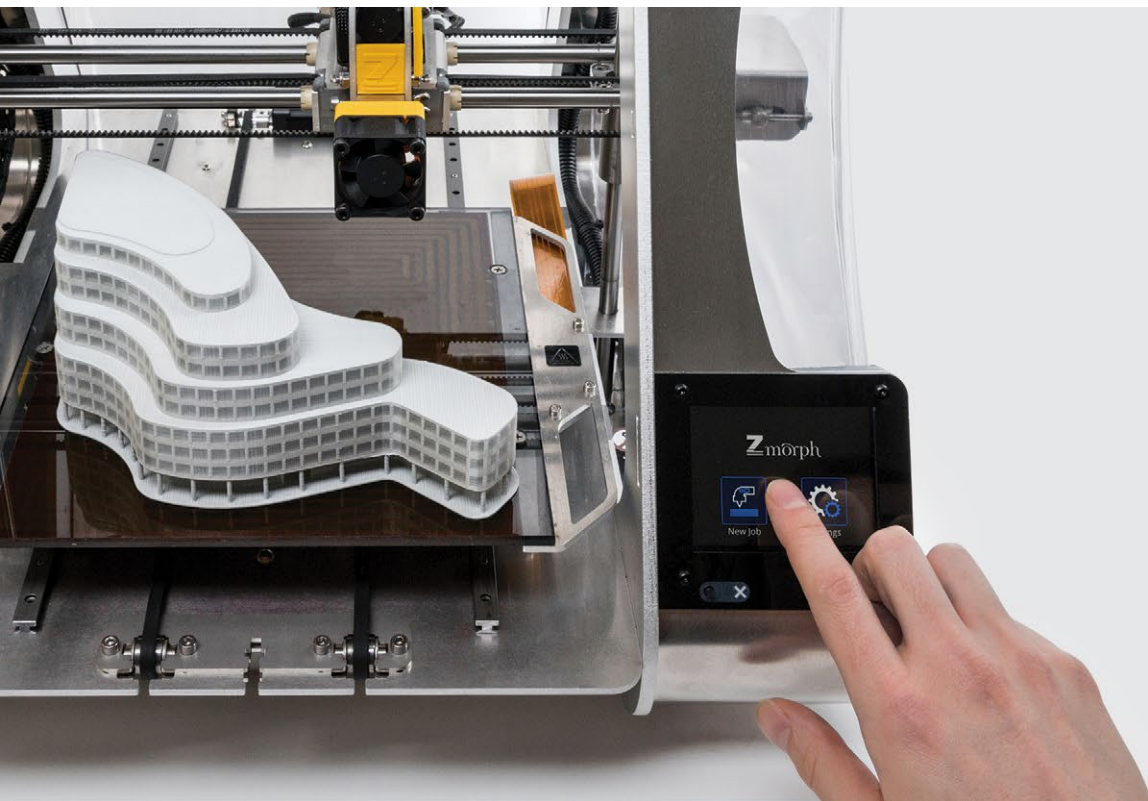
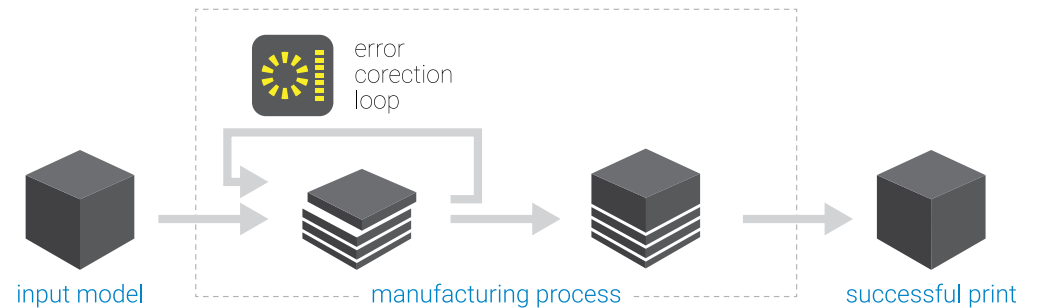
Closed Loop System

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.

REGULAR
OPEN LOOP
SYSTEM



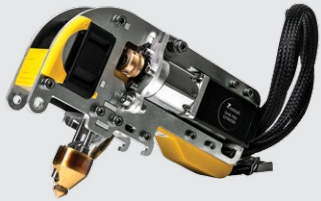
ZMORPH'S
CLOSED LOOP
SYSTEM



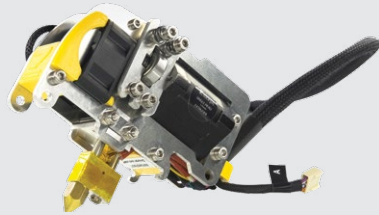
LCD touchscreen and a completely new interface

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.

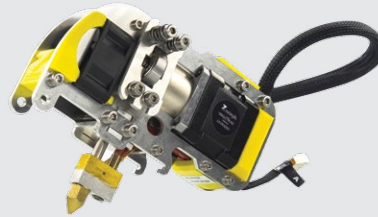
Interchangeable toolheads and worktables



DUAL PRO Plastic Extruder



Plastic Extruder
1.75 mm



Plastic Extruder
3.00 mm



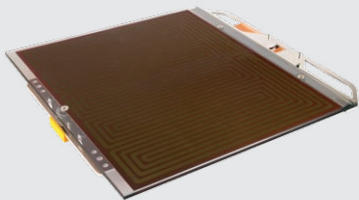
Laser Toolhead



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

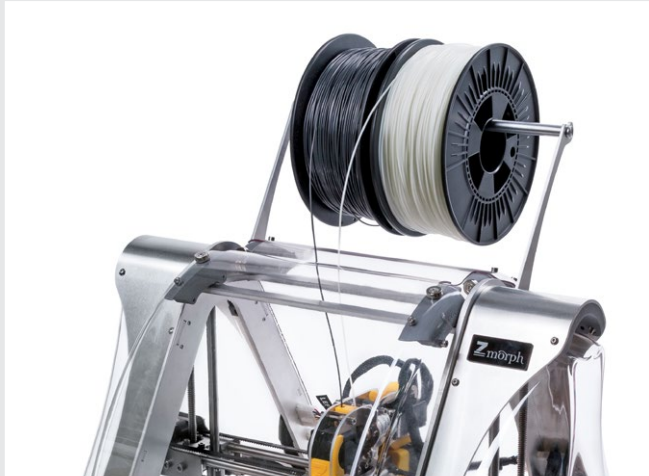
- Plywood
- EVA foil
- Cardboard
- Leather



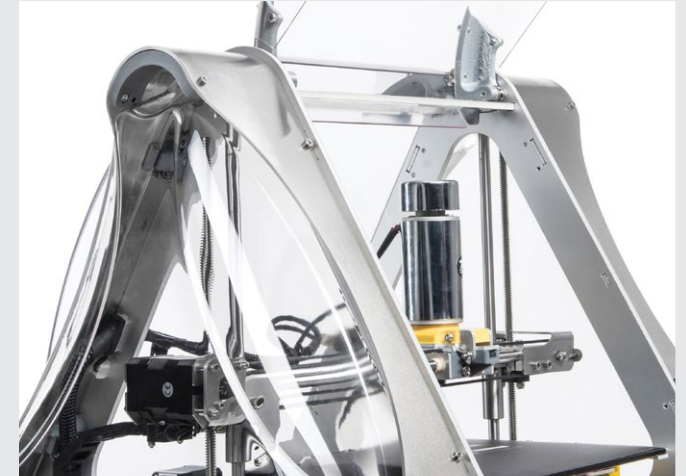
Upgraded construction



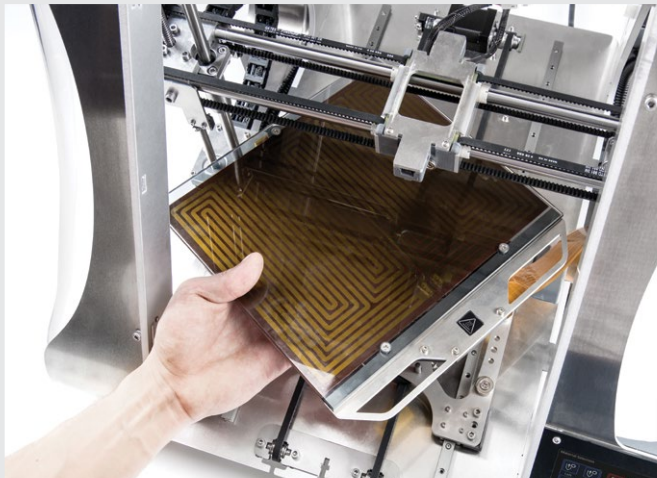
New see-through covers provide stable printing temperature and security. Top covers with magnetic latches can also be easily lifted or taken off and attached back later.



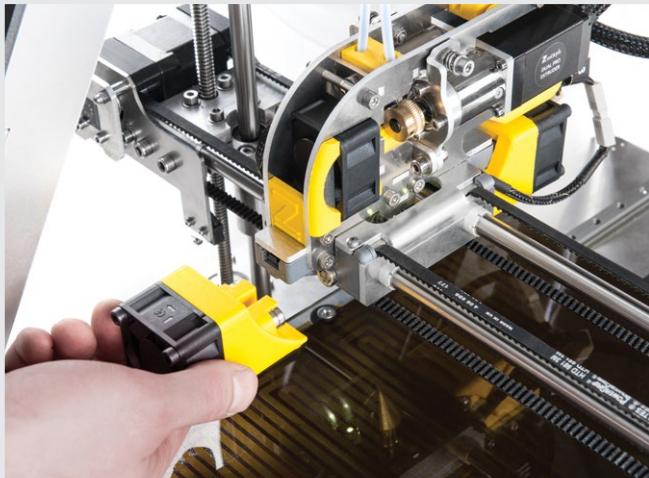
Completely new spool holder that keeps up to four spools of material above the machine and provide the filaments in the quickest and safest way possible.



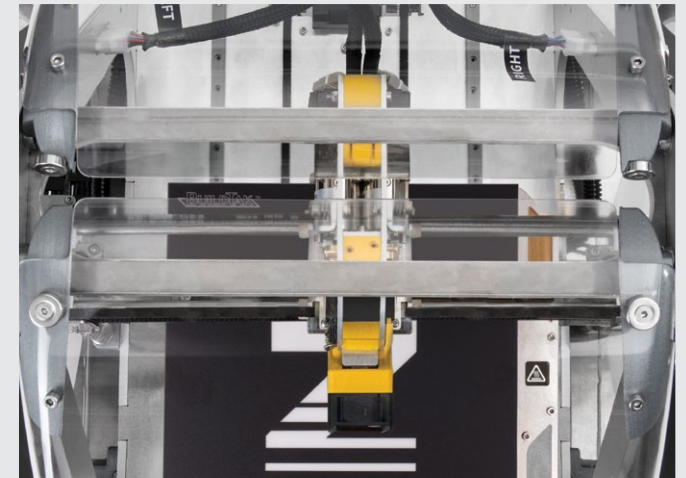
Precision-cut, perfectly fitted aluminum parts bring a new level of quality and durability to a well known ZMorph frame.



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



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



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

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 120°C.

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).

Mechanical positioning precision

- 13 microns for X and Y axes, 0.6 micron for Z axis.

Layer 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.

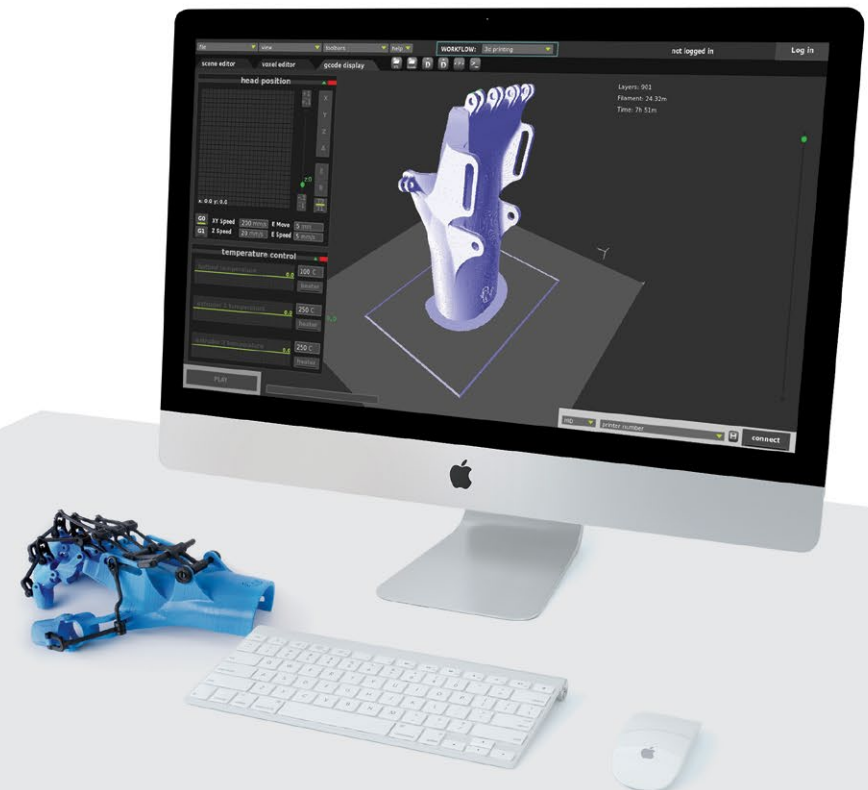
Communication

- 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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