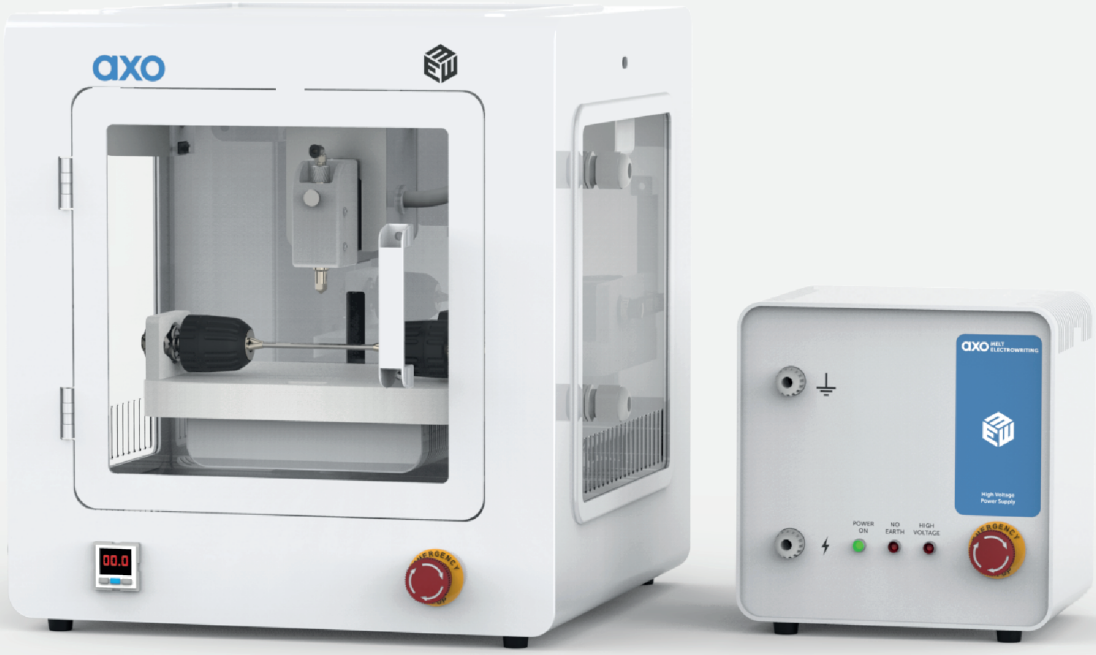
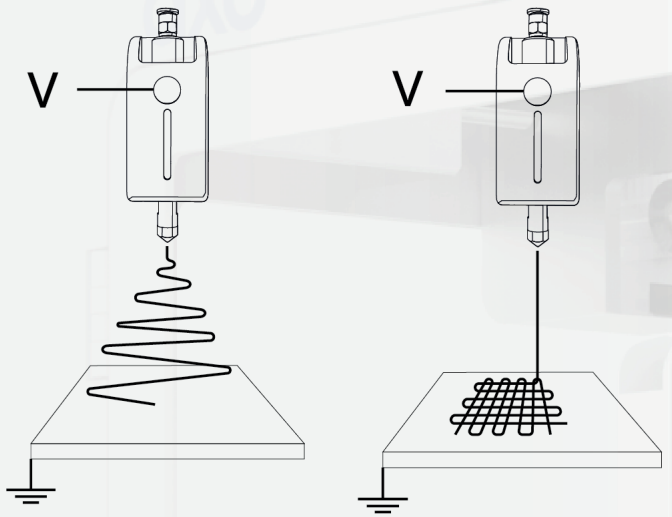
axo MELT ELECTROWRITING

AXO Melt Electrowriting (MEW) grants the researchers the ability to execute electro-spinning and writing processes. These processes are resulted withcreation of micro- and nano-fibers. With different collector options, Axo MEW becomes the tool of choice for your research. Flat Collector and Rotary Collector can be integrated to meet your specific research needs.

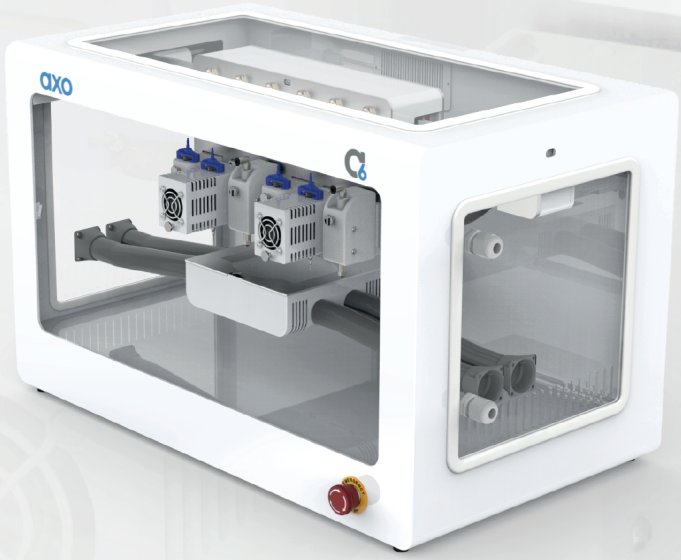




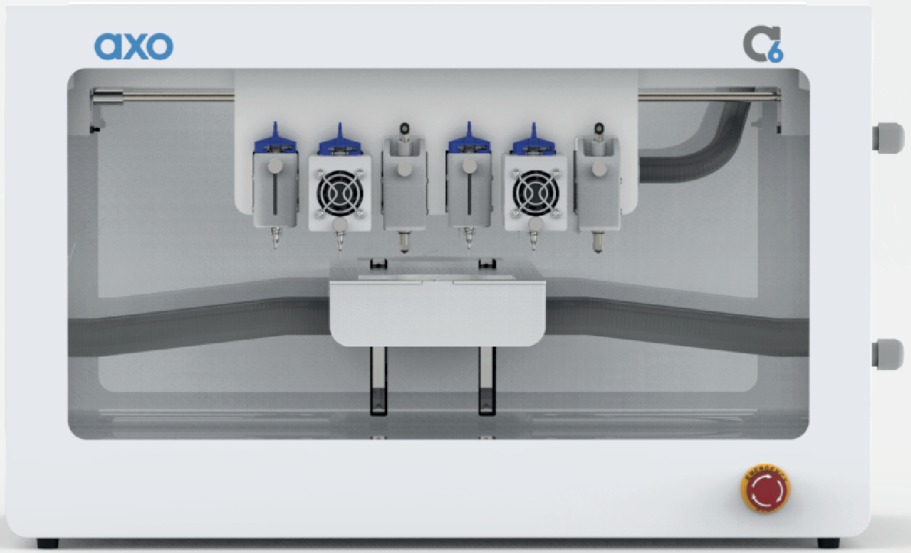
Electrospinning Electrowriting

Layer Resolution:	< 2 µm
Calibration:	Automatic
XY Resolution Per Microstep:	1.25 µm
Z Resolution Per Microstep:	1.25 µm
Melt Electrowriting High Voltage Range:	0 kV - 15kV DC
Melt Electrowriting Current Range:	0 µA - 150 µA
Photocuring:	365nm, 395nm, 405nm
Extruder Air Pressure Range:	0 kPA - 800 kPA
Printing Pressure Resolution	0.1 psi
Collector Rotation Speed Range:	<5000 rpm

BIOPRINTING SYSTEMS:
AXO A6

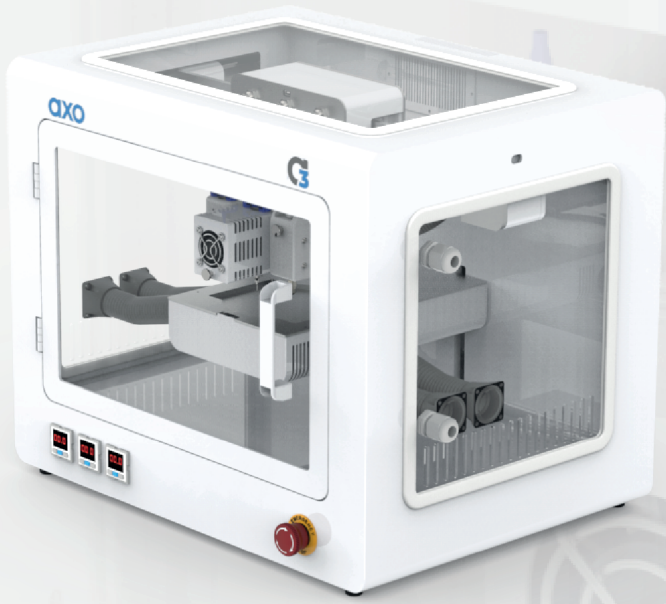


Axo A6 can be described as a multitasking biofabrication station. With its 6 indepenedent printhead slots A6 can perform multiphased bioprinting. Multiple printheads enables researchers use multiple materials without pausing the process. Axo A6 is a machine where all lab compressed into small box. Our printheads have large range of temperature levels. this opens up new path for reseachers for greater variaty of materials can be used. Many of these materials are delicate and prone to contamination. Our printheads and printbed can move with grace and speed to prevent any damage to materials while keeping the bioprinting speed at maximum.



Build Volume:	130x90x80 mm
Printhead Slots:	6 Printhead Slots Avalible
XY Resolution Per Microstep:	1.25 µm
Z Resolution Per Microstep:	1.25 µm
Layer Resolution:	< 10 µm
Calibration:	Automatic
Printbed Temperature:	5°C to 60°C, Peltier Controlled
Melt Electrowriting Technology:	Avaliible
Filtering:	High Efficiency Particulate Air Filter & Prefilter with 0.2 Micron Membrans
Bioprinting Noozles:	Different Sizes and Types Available
Photocuring:	365nm, 395nm, 405nm
Extruder Air Pressure Range:	0 kPA - 800 kPA
Printing Pressure Resolution:	0.1 psi
Build Structure:	Petri Dish, Culture Plates, PE Isolated Plates

BIOPRINTING SYSTEMS:
AXO A3



Axo A3 has modular structure. It has versitile printhead socket with enables A3 to function with different printheads which have unique purpose and capabilities. These printheads designed to be perfect at their designated tasks Printheads can be switched by manually with an ease.

AXO A3 is the pinnacle of bioprinting. AXO A3 is perfect tool for bioprinting with its high presicion movement capability in 3-Axis.

Versitility of A3 has no diminishing effect on its anti-contamination and safety capabilities. Protection of user and process is the ever deciding factor in the designing process of AXO A3. There is 0.22 mm filter betweeen syringe and airways to prevent contamination of the biomaterial in the syrige.

Build Volume:	130x90x80 mm
Printhead Slots:	3 Printhead Slots Avalible
XY Resolution Per Microstep:	1.25 µm
Z Resolution Per Microstep:	1.25 µm
Layer Resolution:	< 10 µm
Calibration:	Automatic
Printbed Temperature:	5°C to 60°C, Peltier Controlled
Melt Electrowriting Technology:	Avaliible
Filtering:	High Efficiency Particulate Air Filter & Prefilter with 0.2 Micron Membrans
Bioprinting Noozles:	Different Sizes and Types Available
Photocuring:	365nm, 395nm, 405nm
Extruder Air Pressure Range:	0 kPA - 800 kPA
Printing Pressure Resolution:	0.1 psi
Build Structure:	Petri Dish, Culture Plates, PE Isolated Plate

axo LOAD BIOREACTOR

Axo Load Bioreactor is a precision instrument developed for deforming scaffolds, flexible membranes, and 3D matrices in a sterile fluid environment. This device is capable of uniaxial deformations on flexible cell-seeded substrates or scaffolds. It has an onboard actuator and control board to enable it to run independently of a computer in an environment-controlled incubator.

The load bioreactor chamber is made entirely of autoclavable materials such as stainless steel and coated aluminum.

Axo Load Bioreactor especially designs to fit inside incubators. Thanks to our tailor-made software it can operate without any USB cable connection.

Stimulation:	Uniaxial
Cell Culture Chamber:	to 3
Cell Contacting Componenets:	Autoclavable Materials
Maximum Velocity:	< 10 mm/s
Loading Capacity:	< 200 N
Media Volume:	< 100 mL
Cell-Contacting Components:	Stainless Steel
Product Consuction:	Available
Standalone Working:	USB
ConnectionElectrical Stimulation:	Available
Output Voltage Range:	0 - 30 V
Output Current Range:	0 - 5 A

axolotl BIOSYSTEMS