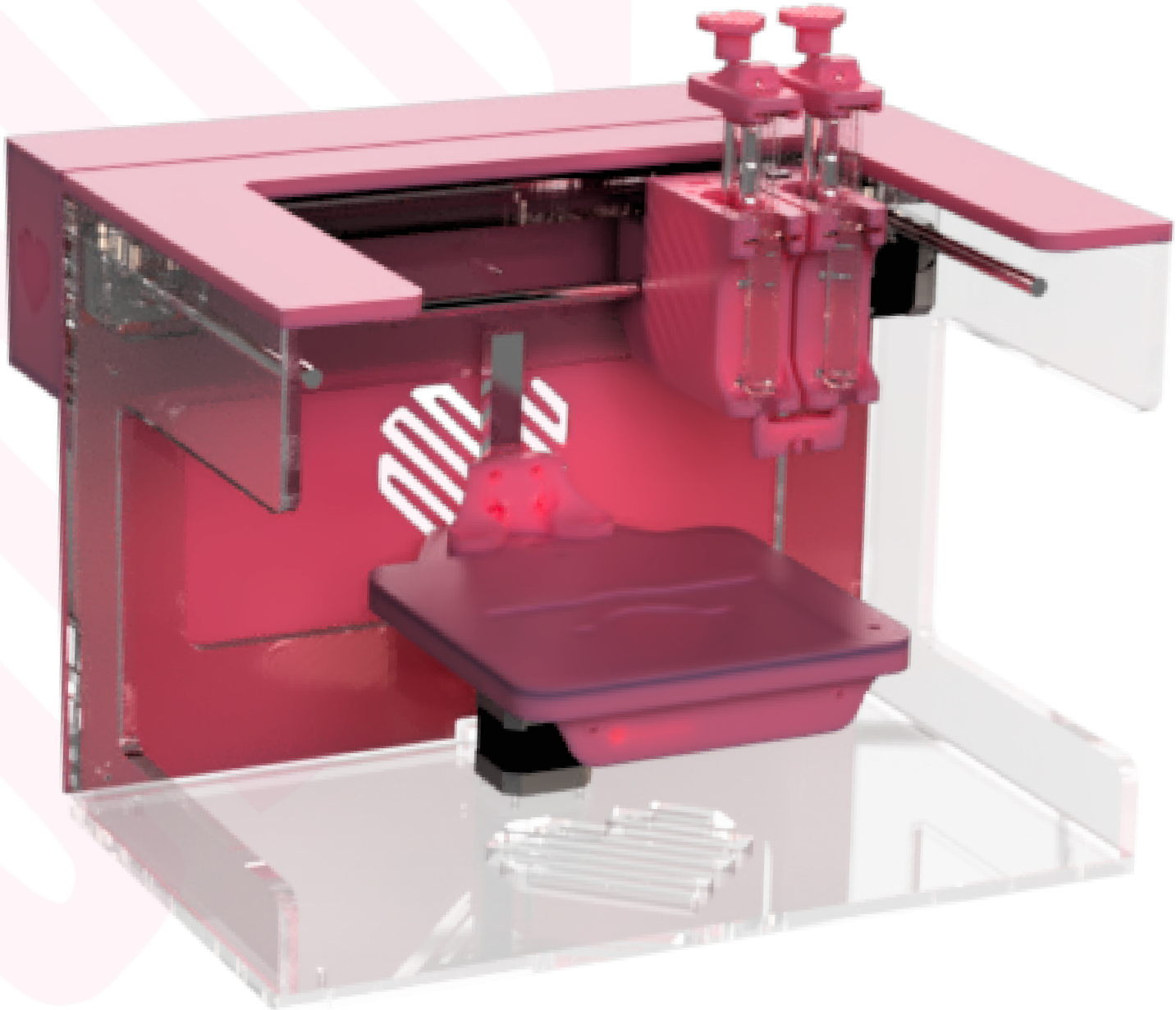
TissueStart™

Your first step into biofabrication

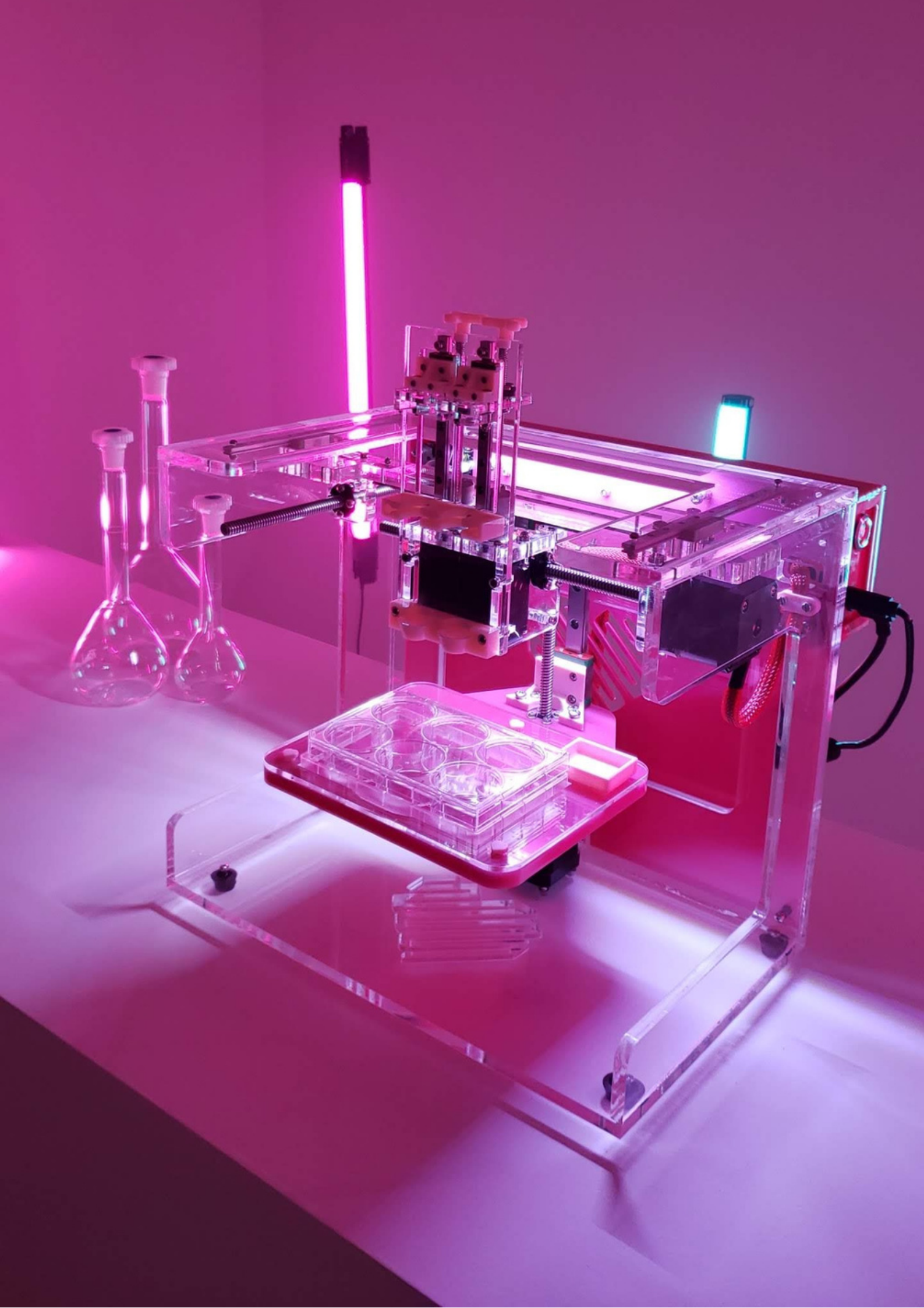


tissuelabs

TissueStart™

TissueStart™ was specially designed for scientists who are just starting to work with biofabrication. It offers the best cost-benefit on the market. It weighs about 7 kg and does not require air compressors to operate. It also has a unique, proprietary extrusion system that combines different bioinks, enabling complex 3D tissues. It is constructed in plexiglass, offering high resistance, long durability, and easy cleaning.

Click on the play button to see the TissueStart™ at work



Highlights

PRECISE AND ROBUST

TissueStart™ is completely fixed and free from mechanical calibration procedures, resulting in high precision and reproducibility.

SUPERIOR CONSTRUCTION

TissueStart™ is constructed with premium plexiglass for high resistance, long durability, and easy cleaning.

COMPACT AND SELF-CONTAINED

TissueStart™ has the smallest footprint on the market. It weighs about 7 kg and does not require air compressors to operate.

BEST VALUE FOR THE MONEY

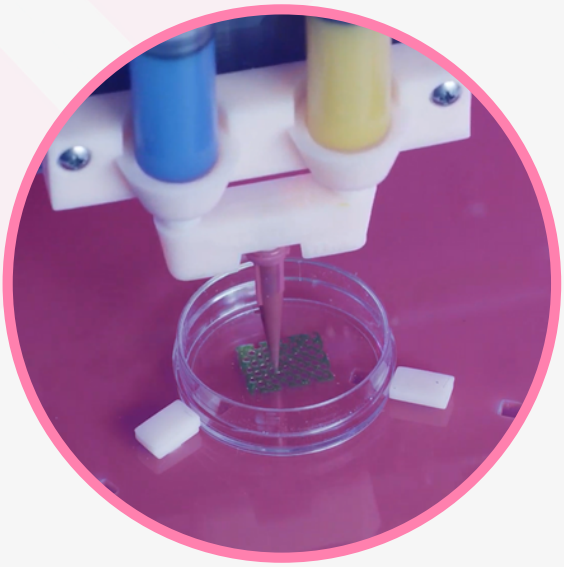
TissueStart™ is the most cost-effective 3D bioprinter on the market. It offers the quality of a flagship 3D bioprinter for a fraction of the price.

Effortless Workflow and No Pressure Calibration

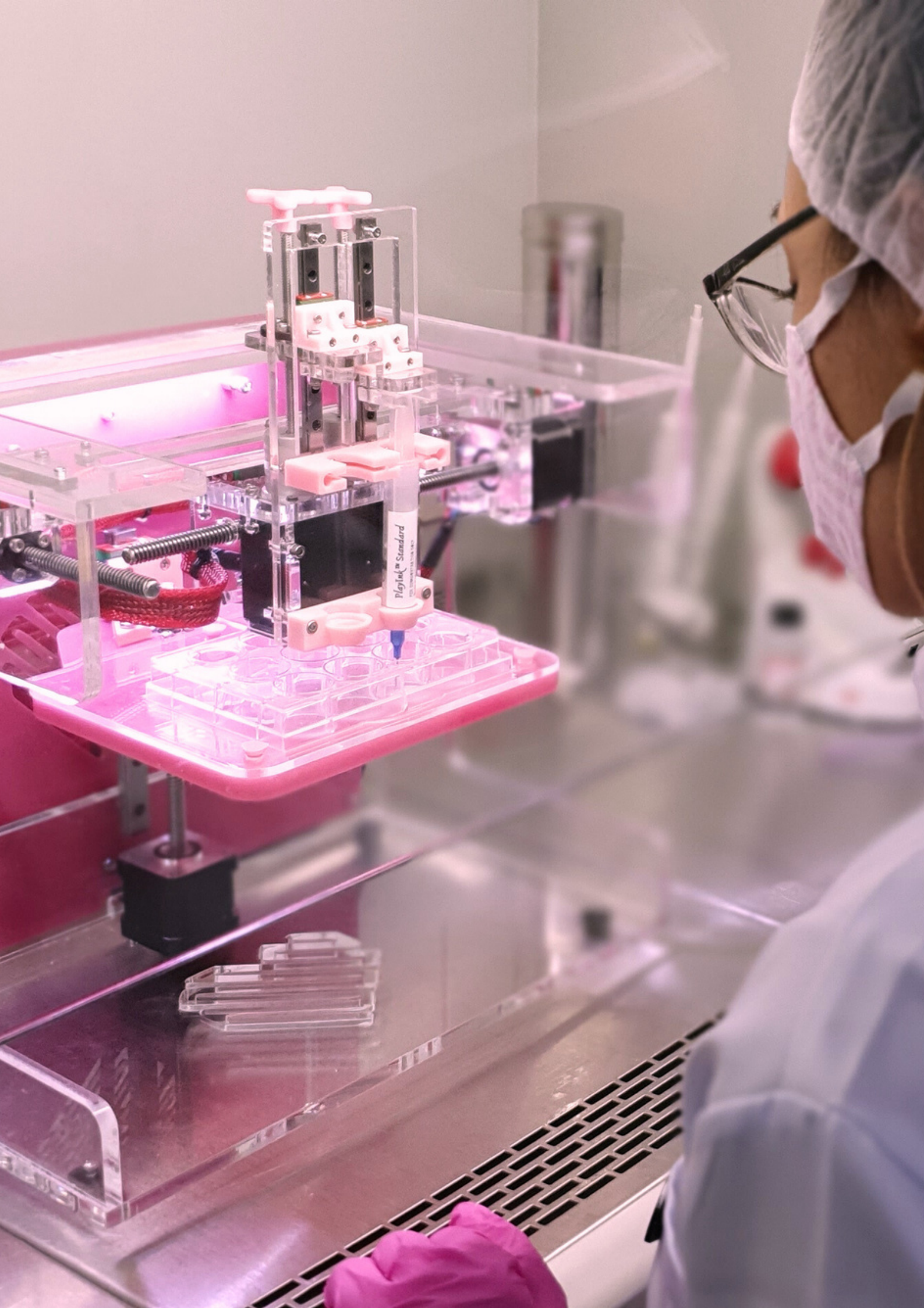
Just fill the syringe with your hydrogel, with or without cells, upload your 3D model, define the needle size, and choose the printing speed. Our user-friendly software takes over, avoiding pressure calibration steps and mitigating material wastage and cell loss, simplifying the process significantly.

Exclusive Mixtrusor™ System

TissueStart™ offers an innovative extrusion system for combining bioinks, allowing the fabrication of complex 3D tissues.



Combine different bioinks at any desired proportion to create new mixtures of biomaterials and cells, or even gradients.


Playtex™ Standard

Technical specifications

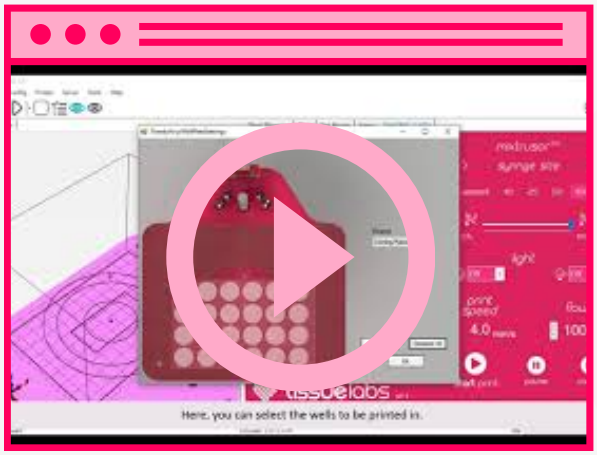
Extruders	2 independent pistons extruders
Compatible syringes	3 mL and 5 mL
Photocuring	365nm (UV) and 405nm (near-UV)
Material	Premium plexiglass
Dimensions	36x28x23 cm (14x11x9 in)
Weight	7.2 kg (15.8 lbs)
Layer thickness	10µm
Resolution	1µm*
Build volume	12.5x8.0x8.0 cm (4.9x3.1x3.1 in) (x,y,z)
Supported plates	Slides, Well Plates, and Petri Dishes
Power requirements	AC 110V/220V
OS compatibility	Windows 7/8/10/11
Calibration options	Speed, flow, layer height, mixture ratio

*Feature resolution is given by the size of the nozzle.

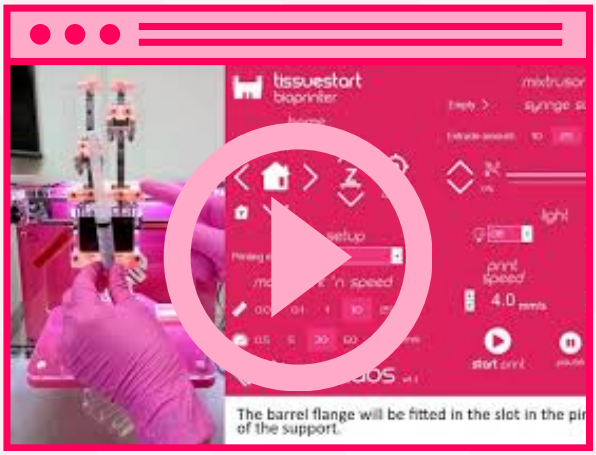
Video Tutorials

Click on the play button to watch the video tutorials

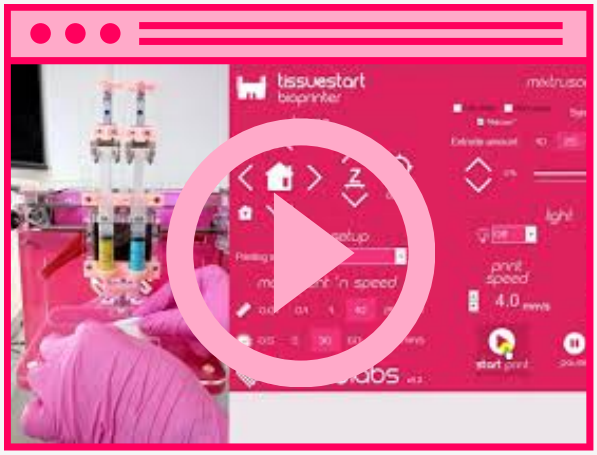
Plug-in Features



Bioprinting: Step by Step



Mixtrusor™: Step by Step



Coaxial Bioprinting

Related consumables

MatriXpec™ Photo

Photocrosslinkable bioink.
Available for the following tissues: Adipose, Bone, Brain, Cartilage, Colon, Kidney, Liver, Lung, Muscle, Myocardium, Pancreas, Skin, Spleen, Stomach, and Vascular.

MatriXpec™ Thermo

Thermocrosslinkable bioink.
Available for the following tissues: Adipose, Bone, Brain, Cartilage, Colon, Kidney, Liver, Lung, Muscle, Myocardium, Pancreas, Skin, Spleen, Stomach, and Vascular.

SupportPlex™

Supporting hydrogel for FRESH 3D bioprinting.

Needles and nozzles

Conical nozzles, standard blunt needles, stainless steel blunt needles, coaxial needle, etc.

CONTACT INFORMATION

info@tissuelabs.com
+41 076 482 31 60

Via Vincenzo Vela 5
6500 Bellinzona, Switzerland

www.tissuelabs.com

Scan this QR code to
access our website

tissuelabs