

Disposable Products

Disposable products specially designed for S-PIKE.

Design Stand Kit

Include Removal tool and Design Stand.

- Removal tool

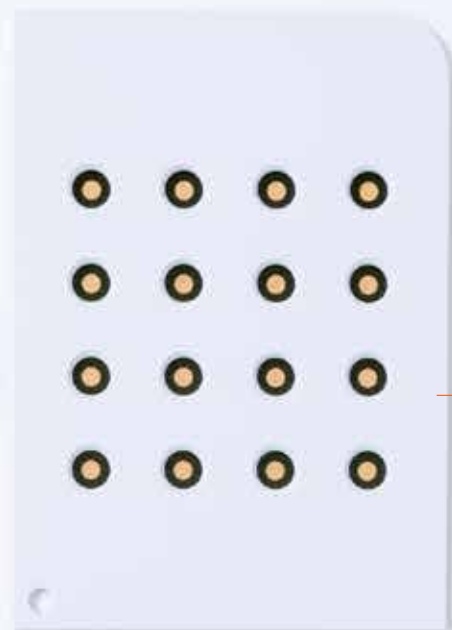
A tool to remove 3D structure from needle.

- Design Stand

A base which place the needles with spheroids.

Needle

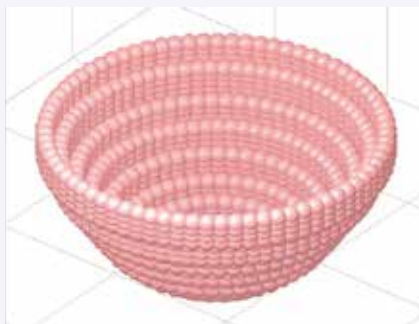
Needles to place the spheroids.



S-Tray

A tray to place spheroids in the well.

Original 3D design software will open the possibility to develop various kinds of application.



S-PIKE Specifications

Product name	Bio 3D Printer S-PIKE®
Power supply	AC100-240V, 50/60Hz
Power consumption	160VA
Layering range	plane : 10×10mm height : 8mm
Spheroid size	400µm (minimum)
Applicable cell type	3 different cell source can be combined at same time.
Size	Main unit : W523×D469×H445mm Control box : W500×D400×H580mm
Weight	Main unit : 39kg Control box : 35kg



Manufacturing Cyfuse Biomedical K.K. www.cyfusebio.com



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Development of 3D-construct from cells only
It provides the only-one technology for researchers



S-PIKE

BIO 3D PRINTER



S-PIKE

BIO 3D PRINTER

S-PIKE realizes developing 3D construct with only cells.

It provides the practical new outcome in the field of regenerative medicine and drug discovery.



feature

S-PIKE 3 Design concept



1

Compact

Configured to be compact and light enough to install in a safety cabinet.



2

Usability

The original software pursues usability to allow flexible designs in various shapes and pitches.



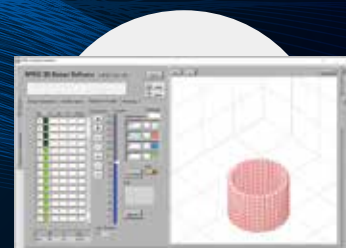
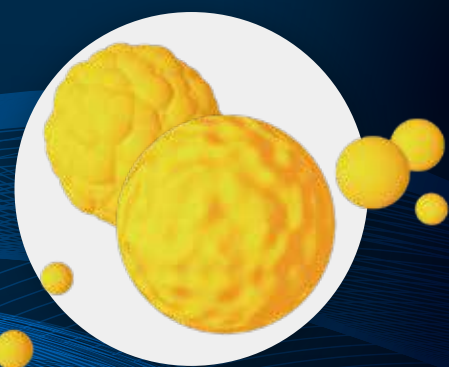
3

User Friendly

Compact device, flexible software and our experience will support your development.

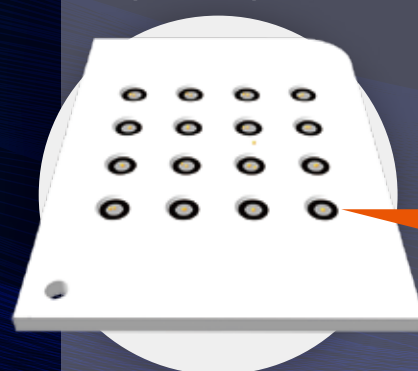
3D construct fabrication flow

Spheroid preparation



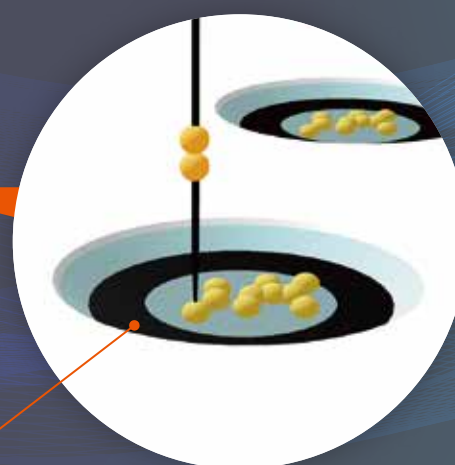
3D design preparation

Originally designed spheroid plate

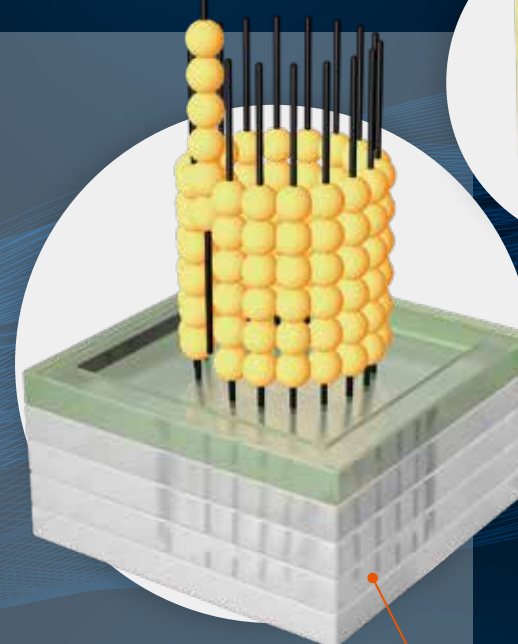


S-PIKE Process

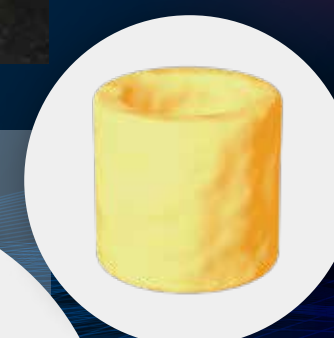
Place the spheroids on the needle



Alignment



Post - printing maturation



Various possibilities for regenerative medicine and drug discovery

Point : Alignment (3D formation)

- Create 3D structure by aligning multiple needles with spheroids on the design stand.
- Create 3D structure in accordance with size of spheroid (400 μ m over)

Point : Spheroid Placement

- Place spheroids which are on the each well of special designed tray, then fabricate by needle.