

BioScaffolder Prime: 3D Bioprinter

An affordable, high-performance 3D bioprinting system from GeSiM GmbH

The BioScaffolder **Prime** is an affordable, **high-performance 3D bioprinter** which offers precision German engineering in an advanced, customisable platform. The modular system can be configured to requirement with options to upgrade later, as need arises.

This multi-headed 3D bioprinter is equipped with multiple dispensing tools including **unique core/shell tools** for simultaneous dispensing of different materials. The BioScaffolder Prime is highly versatile and adaptable for application specific configurations, making it the ideal temperature-controlled bioprinting platform.

✓ **2 Z-axes pneumatic extruder tools**

- Combine different sized syringes and needles for high quality printing of a range of different materials

✓ **1 Z-axis mechanical piston extruder with Z-sensor** for 50ml cartridges (10ml & 1ml coming soon)

✓ **Unique core / shell tool:**

- Print composed strands of different materials – soft cell core material and hard shell material in a co-axial manner

✓ **UV-LED**, built in UV source

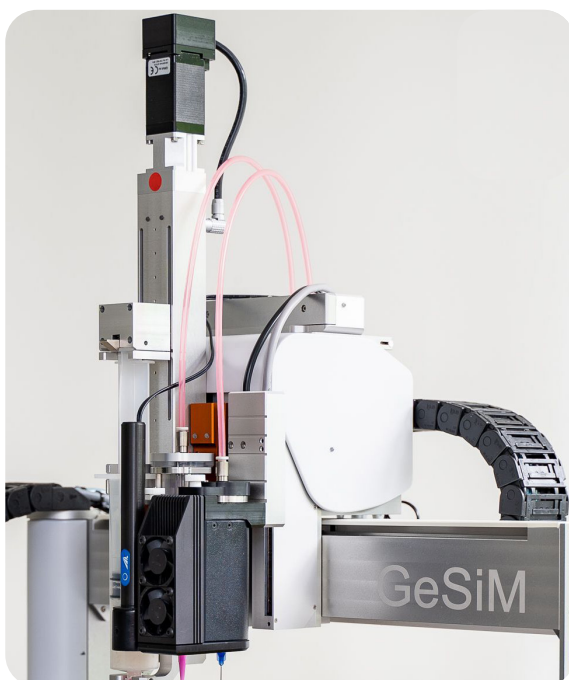
✓ **Peltier heater/cooler for cartridges** for temperature-controlled bioprinting

✓ **High-temperature, high-power piston extruder** for high viscoelastic polymers

✓ **Compatible with existing bio-safety cabinets** - controller separated from the high efficiency heat dissipating printer system for optimum temperature control

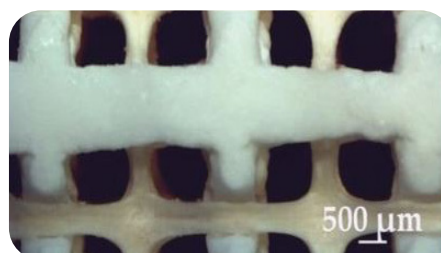
Key Benefits

- **Versatile, modular system**
- **Upgradeable with 13 options**
- **Several dispensing options**
- **Bio-safety housing option**
- **Affordable 3D bioprinting**
- **3x well-plate holders**



Key Applications

- Printing a wide range of Hydrogels - Agar, Gelatin, ... Hyaluronic Acid, Alginates, Fibrin, Chitosan, Collagen
- Printing high/low melting point polymers
- Printing bioinks containing live cells
- Dispensing & UV curing of photosensitive materials



Manufactured by
GESIM
 Distributed by Analytik

BioScaffolder 3D Bioprinter Series

BioScaffolder Prime

An affordable, **high-performance 3D bioprinter** which offers precision German engineering in a configurable platform.

- ✓ **2x pneumatic plus 1x mechanical piston dispenser tools**
- ✓ **Compatible with bio-safety cabinets**

13 optional system tools including the unique GeSim core/shell tool.



BioScaffolder Advanced

The world's most **advanced 3D bioprinting system** equipped with multiple dispensing tools and unique core/shell tools.

Unique options

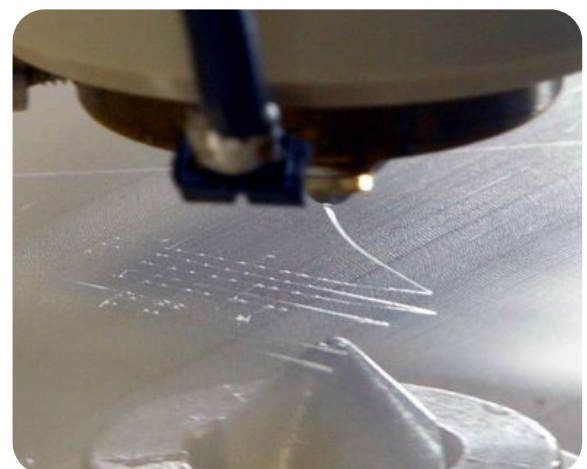
- ✓ **(Heatable) piezo pipettes, solenoid valve dispenser and twin-tip adapter**
- ✓ **Melt electrospinning writing**
- ✓ **Fused deposition modelling filament extruder**
- ✓ **Plasma pen**

BioScaffolder High Volume

A **high volume 3D bioprinter** will all the functionality of the GeSiM platform and high-performance motors for 24/7 operation.

Unique options

- ✓ **Double high temperature extruder & mixer**
- ✓ **Safety enclosure with sliding door**
- ✓ **High volume throughput**



Interested in the BioScaffolder 3D bioprinter series? Call us on **+44 (0)1954 232 776** or email info@analytik.co.uk to discuss your requirements with a product specialist.