BRINTER® ONE – A MODULAR 3D BIOPRINTER FOR

Drug screening

Drug printing

Tissue engineering

Cancer research

Toxicological testing

Material development

WeAreBrinter

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Brinter

Brinter3d

Brinter 3D bioprinter

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BRINTER®

PRINTING LIFE ONE LAYER AT A TIME™

BRINTER® ONE

CUSTOMIZABLE MULTIMATERIAL 3D BIOPRINTER FOR ALL NEEDS

MODULAR DESIGN

Brinter® One is a modular and customizable 3D bioprinting platform. Printing modules can be easily removed, replaced, or upgraded without using any tools. Use any of our stock printheads or have us custom-make your own.

UNLIMITED BIOINKS

You can print an unlimited number of bioinks in a single print job by hot-swapping any or all of the four print heads onboard the Brinter.

EASE OF USE

Brinter comes with a web-browser based control software with an integrated slicer. The intuitive user interface is easy to learn and use even by a novice user. Brinter® software automatically identifies via RFID tags, which print head(s) have been inserted in the tool sockets.

SURFACE OF YOUR CHOICE

Print on whatever print surface you prefer, for example, on a Petri dish, well plate, microscope slide, or directly on a glass print bed with or without temperature control. You can use various Luer-lock compatible needles.

CLEAN WORKING

Brinter® has optional build-in UV/Visible light LEDs for photocrosslinking at 365 nm or 405 nm and 265 nm for disinfection of the print bed. Additionally, Brinter® is the world's first bioprinter utilizing nonharmful photonic blue light disinfection to ensure the cleanliness of the Brinter® printing chamber.

PNEUMA TOOL PRO

GRANU TOOL

MICRODROPLET TOOL HEATED

VISCO BIO TOOL

VISCO TOOL

PNEUMA TRIAXIAL PRO

PNEUMA TOOL COOLED

TECHNICAL SPECIFICATIONS:

Print Heads	Up to 4 different or similar print heads can be used during a single print job
Photocuring	365 nm & 405 nm fixed LEDs, + print head integrated 365 nm, 405 nm & 450 nm LEDs
Sterility	265 nm LEDs for disinfection of the print bed and blue light photonic disinfection of the printing chamber
Compatible Syringes	10 mL
Temperature Range of the Print Heads	4 °C–RT, RT–66 °C & RT–250 °C (for thermoplastic print head)
Pressure Range of the Print Heads	0–6 bar
Temperature Range of the Print Bed	4 °C –65 °C & RT–100 °C
Maximum print speed	80 mm/s
XYZ Minimum Step Size	3 µm
Minimum Strand Diameter	Material dependent, 0.100 mm needles available
Build Volume (W × D × H)	304 x 174 x 80 mm; in practice, H ≤ 40 mm
Equipment Dimensions (W × D × H)	550 × 650 × 600 mm, weight ~45 kg
Connectivity	via Ethernet