

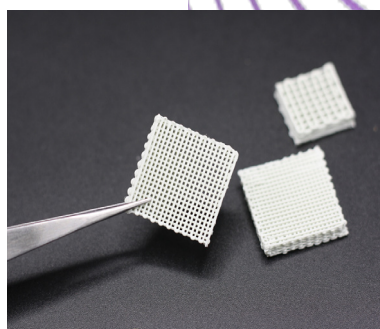
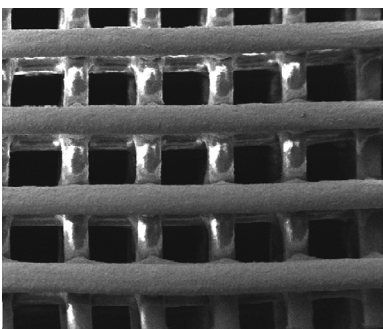


ABTIN III

3D bioprinter

Abtin Teb Fanavar Co

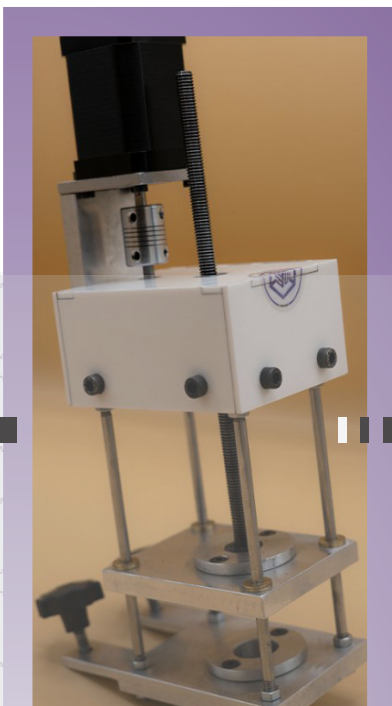
Abtin Teb Fanavar Co





TECHNICAL SPECIFICATION OF ABTIN III BIOPRINTER

- Printing technology: Ink Extrusion (Direct Ink Writing/ Robocasting/Bioprinting), convertible to FDM: Fused Deposition Modeling
- Motion mechanism in x, y, z axes: Ball screw
- Power transmission: stepper motors coupled directly to the shaft
- Motion resolution: 25 micrometers
- Maximum movement and printing speed: 20 mm/min
- Interior body material: Steel and aluminum alloy
- Exterior body material: Steel sheet
- Printing area dimensions: 10×10 cm print area and 8 cm height (with the possibility of making custom dimensions)
- Print interface software: Repetier Host
- Slicer software: Cura-Slic3r-Simplify
- Supported 3D formats: STL-OBJ-GCODE



- Gearbox-equipped extruder
- Capable of extruding a variety of inks even with high viscosity
- No need for an external compressed air pump
- Ability to work with disposable plastic syringes and metallic cartridge
- Precise extrusion rate control using a lead-screw mechanism



TECHNICAL SPECIFICATION OF ABTIN III BIOPRINTER

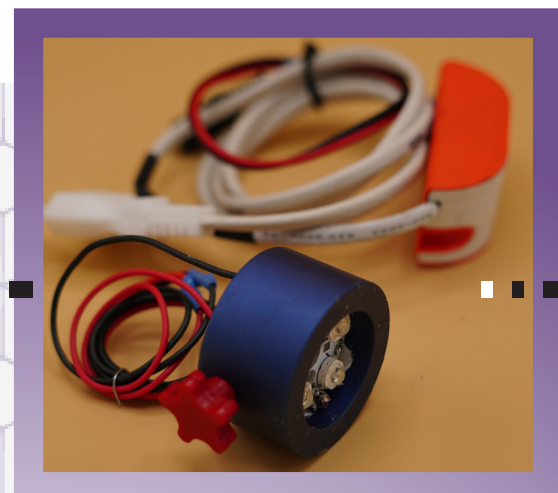
- Thermal module made of aluminum an insulating coating
- Mountable on the metallic cartridge
- Temperature range between 25 and 180 degrees Celsius
- Suitable for molten 3D printing of various thermoplastic polymers and polymer-based composites



- Separable multi-component steel cartridge
- Ability to print various inks, especially high-viscosity inks
- Ability to work with metal and plastic nozzles
- Intended for printing various inks including hydrogels (with and without cells), polymer/composite solutions, polymer/composite melts, slurry or paste



- LED light module for printing various resins and curable hydrogels
- Visible and ultraviolet light upon customer request
- Mountable on metallic cartridge
- Applicable as a separate light source



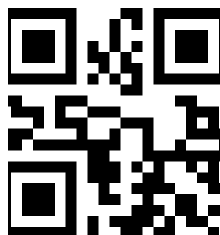
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