BMF
BOSTON MICRO FABRICATION

Engineered for Precision
Built for 20X Speed

mircoArch® S150 Ultra

High-Speed Micro 3D Printing

Optical Resolution :
25μm

Maximum Print Speed :
4s/layer

Maximum Build Size :
80 mm(L)*48 mm(W)*50 mm(H)

Specification

Light Source	UV LED [405 nm]
Printing Material	Photosensitive Resin, Biomaterial
Optical Resolution	25 μm
Layer Thickness	20~100 μm
Build Size	Mode 1: single exposure mode 27 mm[L] × 48 mm[W] ×50 mm[H]
	Mode 2: stitching exposure mode 80 mm[L] × 48 mm[W] × 50 mm[H]
	Mode 3: micro array mode 80 mm[L] × 48 mm[W] × 50 mm[H]
Input Data File Format	STL
External Dimensions	800mm[L] ×485mm[W] ×450mm[H]
Touchscreen Monitor Size	10.1inch (1280*800)
Total Weight	70 kg
Power Supply	100~240 V AC, 50/60 Hz, 1.3kW

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High-Speed Micro 3D Printing

High-speed printing at 4s/layer ~ 12s/layer, with up to 20x speed increase, supporting high-throughput R&D and production

High-Precision Manufacturing

25μm optical accuracy, enabling more complex and intricate structures with no compromise on details

High Tolerance Control

Fully meets industrial-grade standards in performance, precision, and stability, with tolerance controlled within ±50μm

Features

Industrial-Grade Stability

Side-shifting Membrane + DLC-coated platform ensures consistent quality and reduced wear, delivering stable performance for both small-batch customization and mass production

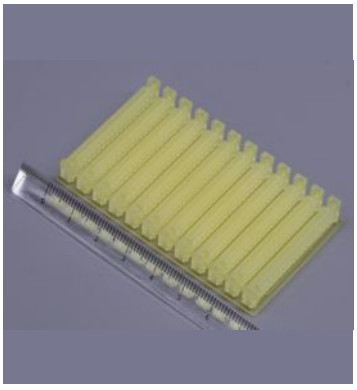
Clean & Safe Printing Environment

Built-in HEPA13 fresh air filtration system and in-chamber UV disinfection system, effectively controlling particle and microbial risks to ensure safe operation

High-Efficiency Operating Experience

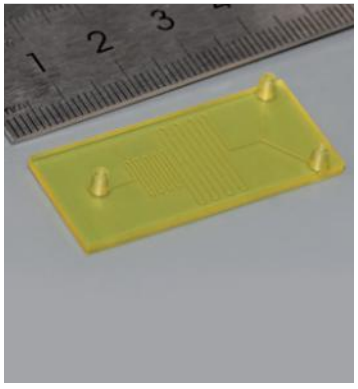
Calibration-free system + touchscreen operation, enabling one-click printing start

Applications



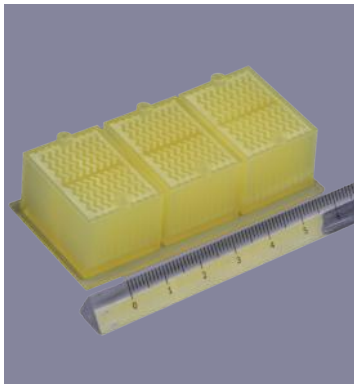
Connector

Application field:
Precision Electronics
Dimensions:
1 Pcs 41x4.65x7.7mm³
Full area 80x48x7.7mm³
Features:
Min. wall thickness 130μm
Printing Time:
42mins/1Pcs
Full area 78mins



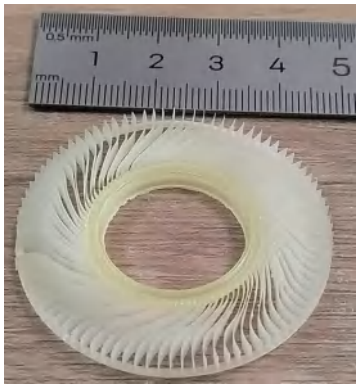
Microfluidic Chip

Application field:
Microfluidics
Dimensions:
40x15x10 mm³
Features:
Channel diameter 100μm
Printing Time:
20mins/1Pcs



Blood Cooler Regulator

Application field:
Biomedicine / Regenerative medicine
Dimensions:
1 Pcs 30x22x20mm³
Full area 80x48x20mm³
Features:
Internal complex flow channel structure
Spiral channel diameter 125μm,
Curved channel diameter 420μm
Printing Time:
78mins/1Pcs,
Full area 174mins



Blade Structure

Application field:
Micromechanics
Dimensions:
48x48x4mm³
Features:
Blade wall thickness 100μm
Printing Time:
38mins/1Pcs

Boston Micro Fabrication (BMF)

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