

makeblock

STEAM
Education

Science | Technology
Engineering | Art
Mathematics

mcreate

Smart leveling versatile 3D printer



Genius Smart Leveling



Patented Smart Nozzle



Flexible Magnetic Build Plate



Full-color Touch Screen



3D Printing & Laser Engraving
2-in-1 Design



220 × 220 × 295 mm
Large Build Volume



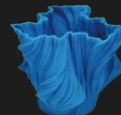
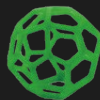
Resume Printing after
Power Outage



Support STEAM Education

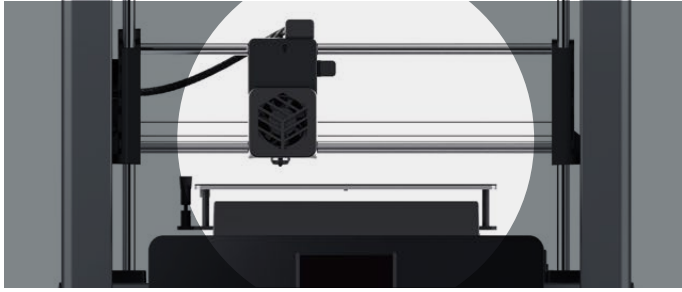


mCreate is a versatile desktop 3D printer featuring the innovative Genius smart leveling technology for accurate printing. Our patented smart nozzle, flexible magnetic build plate and the ability to resume working even after a power outage, enable mCreate to deliver a remarkable print success rate and quality. By quickly switching to the laser engraving mode, the machine meets the needs of a broader range of applications in STEAM education or other creative projects. Built for materializing creativity, mCreate make ideas tangible.



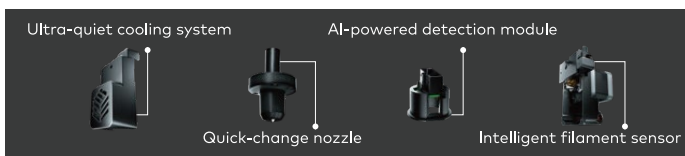
Integrate new technologies for a higher print success rate

① Genius smart leveling creates accurate prints



With a build-in AI-powered detection module, mCreate can calculate the working plan with respect to the actual conditions of the print platform for reliable 3D printing.

② Patented smart nozzle makes printing better and steadier



3 seconds Change Nozzles	360° Circular airflow cooling system	<45dB Quiet operation	Zero Almost zero print failure rate when out of filaments
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③ Flexible Magnetic Build Plate — supports wider ranges of materials, easy to remove prints upon completion

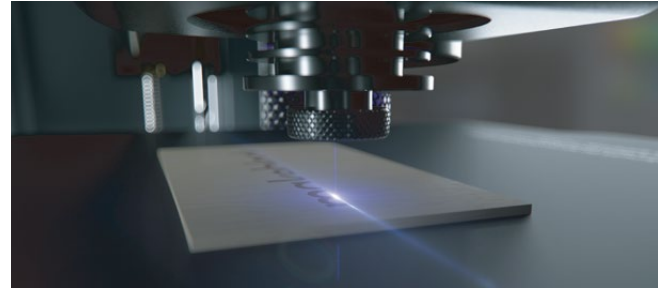
The build plate of mCreate is heatable, attaching a flexible magnetic sheet with a frosted surface. It gives better adhesion of the 3D print to prevent edge warping and curling. After printing, you can take off the magnetic build plate and remove the print easily without a scraper.

④ Resume printing after a power outage

The nozzle will rise instantly during a power outage, protecting the semi-finished print. After the power is back on, the nozzle will return to its initial position to heat up and then continue printing. This feature effectively minimizes print material and time losses due to power interruptions.

Switch to laser engraving mode for more creations

① Deliver awesome laser engravings effortlessly



a.Auto-recognition of operating modes

Turn mCreate into a laser engraver by replacing a laser head. The operating interface will automatically switch to laser engraving mode. By inserting a portable USB drive, the machine can directly read the files and process engraving without connecting to the software.

b.Autofocus

mCreate can achieve an optimal focus automatically to make the engraving more refined.

② Laser engraving on curved surfaces



The laser engraving function is optional. Please contact the local sales team for more details.

Meet the needs of STEAM education



Specifications

3D Printing				Laser Engraving	
Additive Manufacturing Process	Fused Deposition Modeling	Nozzle Temperature	260°C (Max.)	Work Area	225 × 225 mm
Build Volume (L × W × D)	220 × 220 × 295 mm	Heated Bed	80°C (Max.)	Software (Laser Engraving)	Laserbox for mCreate
Layer Resolution	50-300μm	Software (Slicing Application)	Cura	File formats	DXF, SVG, JPG, PNG, BMP, CR2, etc.
Supported File Type(s)	STL, OBJ, X3D, 3MF, JPG, PNG, GIF, BMP, etc.				
File Extension	GCODE			Material capability	Paper, wood, bamboo, rubber, leather, fabric, acrylic, anodized metal, painted metal plastic, etc.
Supported Materials	PLA and derivatives, TPU, PET, ASA, HIPS, PP, PVA, etc.				

Software

Cura 3D printer slicing application Plug-in for mCreate available Preset default slicing value	Laserbox for mCreate Laser engraving software Professional image-editing Smart pathway planning Support various file formats	More information: www.makeblock.com/mcreate Contact us: overseas@makeblock.com
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