



MINGDA



12 Years Industrial 3D Printer Manufacturer

ONE-STOP 3D PRINTING SIGNAGE SOLUTIONS PROVIDER

Four colors & High speed & Large size



Shenzhen MINGDA Technology Co.,Ltd



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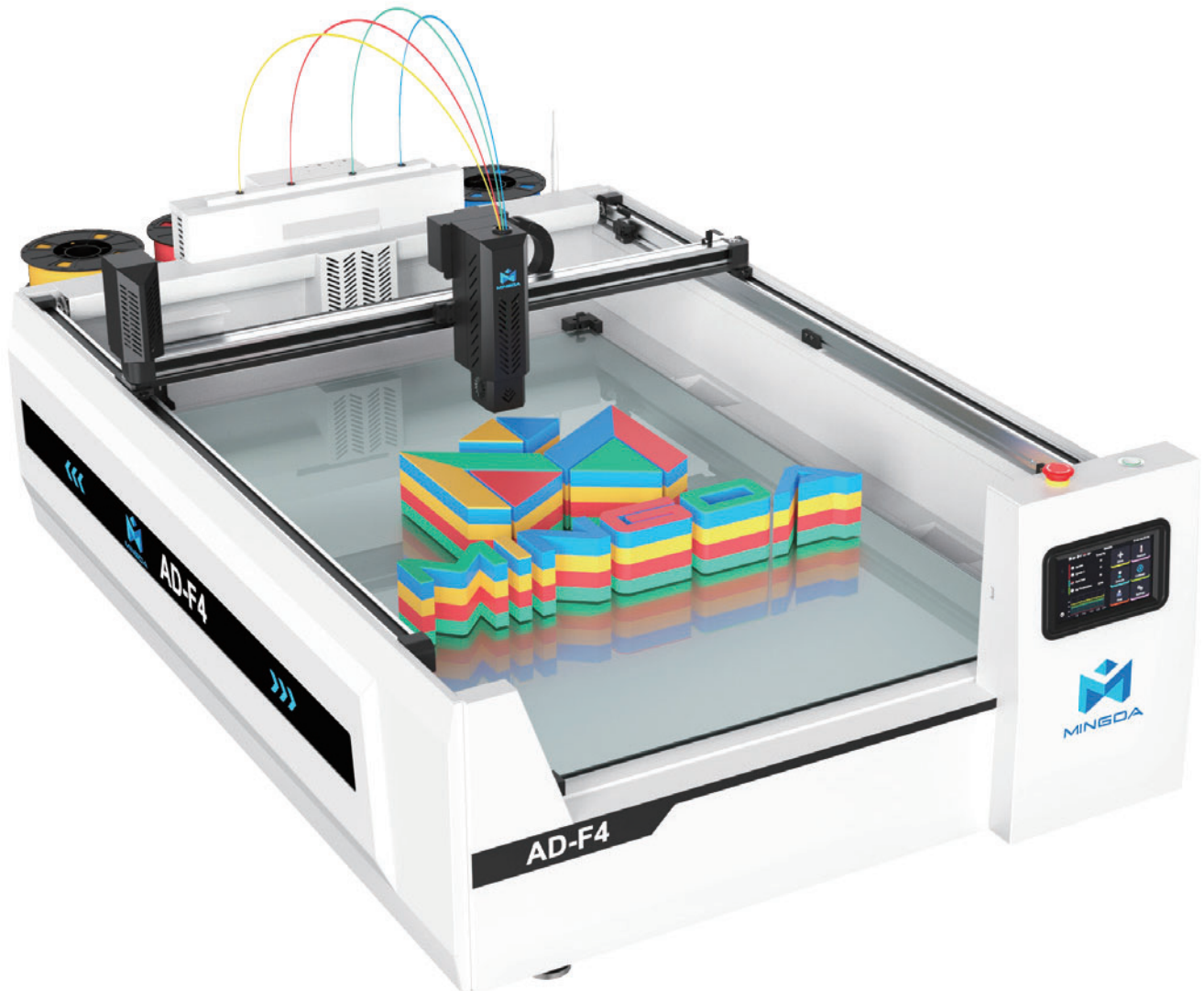
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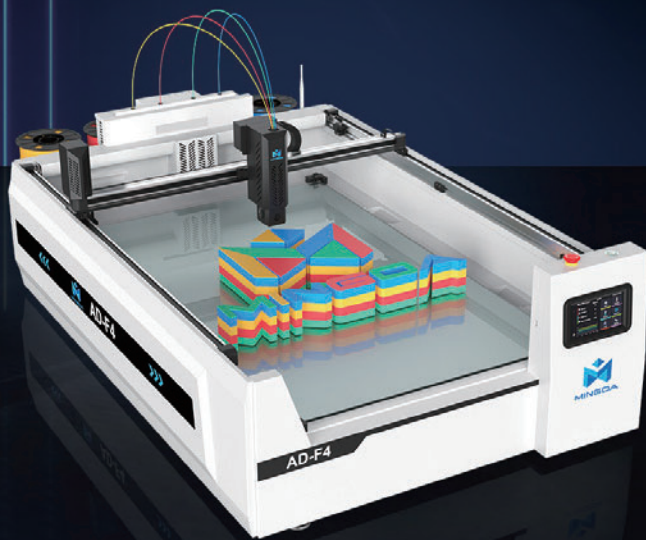


AD-F4

4-color high-speed letter 3D printer



- 5 times faster printing Speed
- 4 Colors automatic color change function
- 1200*800*100mm super large build volume
- Self-developed Software for free Modeling
- Remote Control and Monitoring
- Ultra high cost-effectiveness, efficient mass production



One-Stop 3D Printing Signage Solutions Provider

MINGDA 3D AD-F4

Max Build Volume
1200*800*100mmPrinting Speed
Max.300mm/sIMS four-color
feeding systemFilament:
PLA,PETG,PDS

TECHNICAL PARAMETER

Printing Parameters

Technical principle:	FFF (Fused Filament Fabrication)
Printing size:	1200x800x100mm
Layer thickness:	0.2-0.42mm
Printing nozzle:	4 in 1 out
Number of trays:	4 (Max 1KG/pcs)
Filament diameter:	1.75mm
Printing speed:	0.4mm nozzle: Max.300mm/s (Recommended 200mm/s) 0.6mm nozzle: Max.150mm/s (Recommended 120mm/s)
Nozzle diameter:	0.6mm (optional: 0.4mm, 0.8mm)
Leveling method:	Gravity-sensing auto-leveling
Material types:	PLA,PETG,PDS, etc
Nozzle temperature:	Max 300 °C
Hot bed temperature:	Max 60 °C
Intelligent design:	Filament break detection, power-off resume printing

Equipment Parameters

Maximum power:	220V/2700W
Firmware:	Klipper
Data connection:	U-Disk, WiFi
Operation Screen:	7-inch touch screen
Build Plate:	Tempered Glass Platform
Cooling System:	Air-cooled
Filament Tray Design:	Folding filaments tray
Moving Speed:	Max XY 500mm/s,Max.Z 15mm/s
Package Dimensions:	Length 1810 * Width 1210 * Height 850mm
Package Weight:	285.5KG

Security Parameter

Safety design:	Warning light, Emergency stop button
Regulatory certification:	CE, FCC

Slicing Software

Slicing software:	AdWordCraft, MINGDA Slicer
Data type:	.dxf .svg .3mf .stl .stp .amf .obj
Operating system:	Windows/Mac OS

MD-C02

Acrylic resin UV Curing Machine



- Fast curing speed
- 230W ultra-low power, low energy consumption, low cost, and lower mechanical failure rate
- 800 * 1200mm super large curing size, convenient for mass production, greatly improving production capacity and efficiency
- Large color screen, simple UI design, and more convenient operation.

MD-C02

Advertising Letter 3D Printing Curing Machine

Efficient Curing High Performance



Fast curing
speed



Timing



Low Consumption
230W



Big Curing Size
1200*800mm



MODEL SPECIFICATION

Model Number:	MD-C02
Tempered glass size :	800*1200mm
Max curing size :	800*1200mm
Machine Size :	1600*970*433mm
Power :	230W(110V-220V)
Timing:	Different Optional
Package Weight:	160KG

Channel Letter 3D Printing Filament

AdPETG Tough Light-transmitting Filament

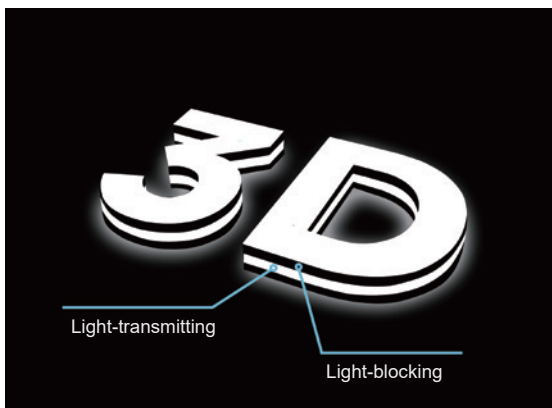
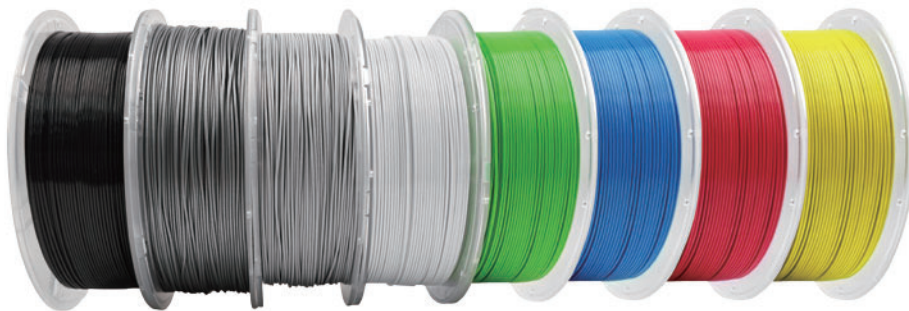


Advantages

- Easy to print, with high strength and durability for printed characters.
- Light transmittance can exceed 90%, making it suitable for lightbox lettering, backlit signage, or translucent parts of illuminated letters.
- Long-term use without yellowing, ideal for both indoor and outdoor applications.



AdPETG Tough Light-blocking Filament



Advantages

- Easy to print, with high strength and durability for printed characters.
- Excellent light-blocking effect, resistant to localized light leakage.
- Long-term use without yellowing, ideal for both indoor and outdoor applications.

AdPETG Tough Light-transmitting Filament



Red



Yellow



Blue



Lake Blue



Orange



Gold



Green



Mint Green



Purple



Pink



White



Bronze



Black



Silver



Gray



Transparent

AdPETG Tough Light-blocking Filament



Red



Blue



Green



Yellow



Black



Silver



Gray



White

One-component Acrylic Resin

Advantages:

- Good breathability
- Low odor, long storage time
- Antioxidant, 100% unchanged yellow
- Ultra strong heat resistance temperature
Cracking resistance.



Comparison of Application Range

Model	Viscosity	Fixed Conditions	Hardness	Heat temperature °C	Density	Pasta proportion
White	1500-2000	The UV light 60 minutes	75	-30~100	1.012	1.5‰~3‰
Transparent						

Product Feature

- One-component pure acrylic glue smell, basic non-toxic, easy to operate.
- Water free self demolding, not controlled by temperature, cured in 60 minutes.
- Strong stain resistance, 100% unchanged yellow, anti cracking.
- Both plastic and stainless steel pipes can be glued to metal materials.

Calculate the Dosage of Glue

- $\text{Area of letter} * \text{thickness of poured acrylic glue (m)} * \text{density of acrylic glue (1,200 kg/m}^3\text{)}$
= Weight of the required acrylic liquid

(Note: The glue thickness is 3mm, which is 0.003m)



Advantages of MINGDA Design&Slicing Software

1. High Customization:

Custom-made for advertising, supports 2D - 3D operations, text generation, and various font shapes.

2. System Integration:

Integrates with MINGDA 3D machine(e.g., firmware and hardware) for better efficiency & reliability.

3. Printer Connectivity:

Connects smoothly, monitors print status in real-time, and offers remote control.

4. User-Friendly:

Intuitive interface, low learning cost, accessible to all.

5. Multilingual:

Multilingual interface for global users.

6. Cross-Platform:

Works on Windows & macOS.

7. Support:

Provides comprehensive technical support and after-sales services.

8. Regular Updates:

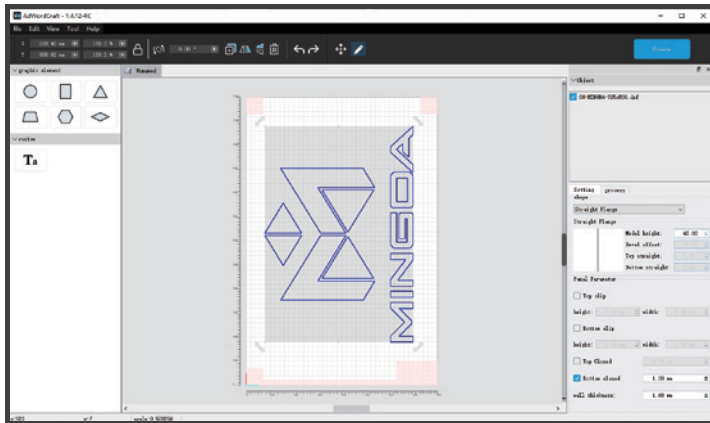
Updates based on customer feedback. Introduces new features and fixes issues to stay competitive.



MINGDA AdWordCraft



MINGDA AdWordCraft



Available Modeling

Font generation, vector file reading, 3D model generation. Expected to be twice as fast as the original version. Experience unparalleled creativity with our advanced software, which offers 2D to 3D conversion, text generation, and the ability to create fonts in various shapes.



Supported files



Supported systems



Windows

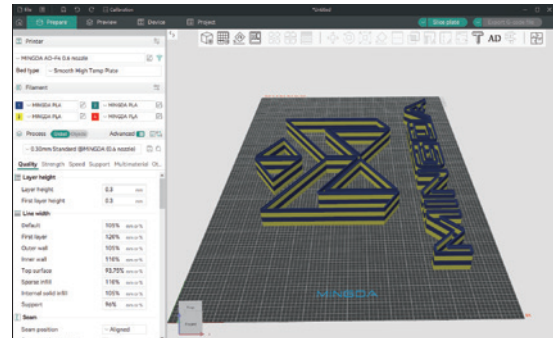


Mac

Channel Letter Production Process

01 Design graphics and text to generate 3D models and slice data

- Import a dxf/svg file of your logo or enter the letters you want to print;
- Generate 3D models and export slice files.



02 Print letter & Backboard



03 Filling glue



- After the letter is printed, directly lifts it and glass to the curing machine



- Gluing

04 Install LED strip

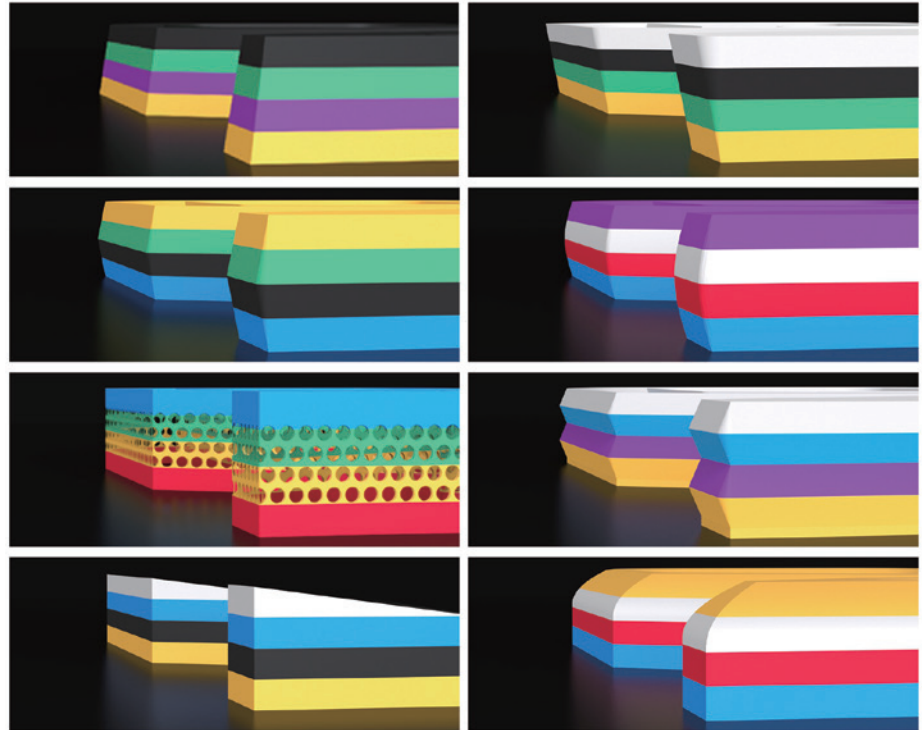
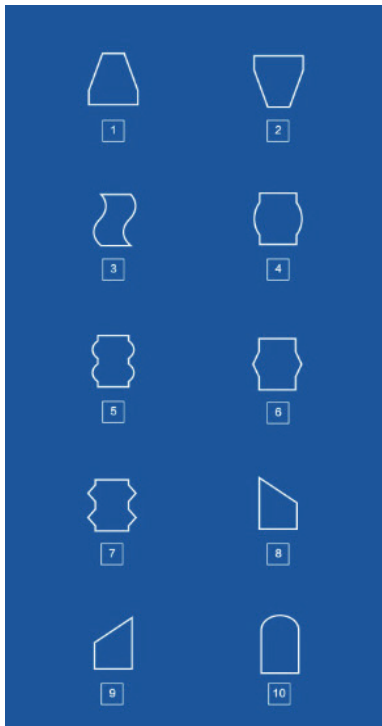


05 Power on display

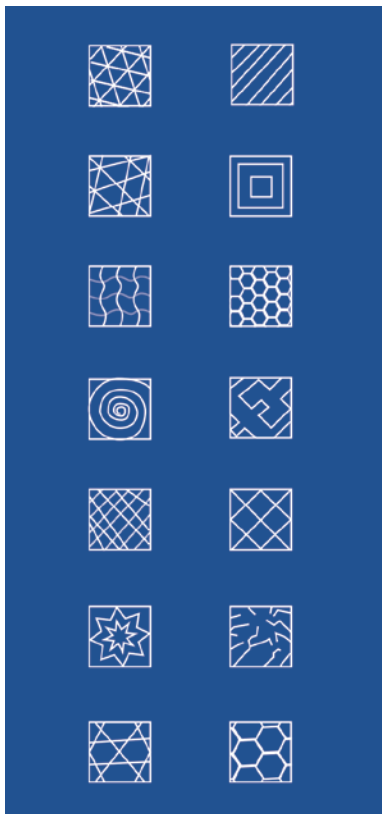


Supported Fonts

Example of Advertising Letters-Side Shapes



Example of Advertising Letters-Face patterns

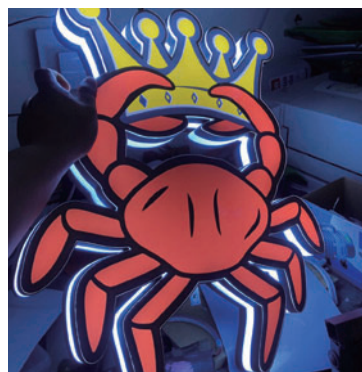
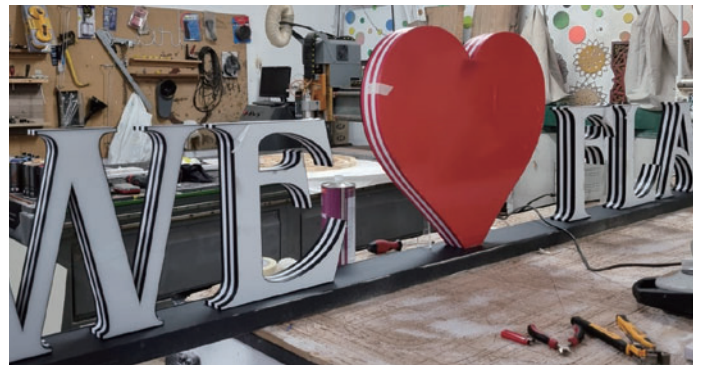


From customer cases

www.3dmingda.com

Mingda 3D provides integrated solutions for advertising sign production for multiple brands, including those from the automotive industry, technology industry, retail industry, and others.

Using the 3D printing advertising led letter production solution provided by Mingda 3D, it is fast, efficient, cost-effective, and environmentally friendly.



MINGDA 3D printer after-sales service commitment



Extra long warranty



Quick Response Within 1 Hour



Exclusive 1-on-1 Technical Support



Major Service Segments for MINGDA Users

01

Online Installation and Debugging Assistance

02

Equipment Operation Training

03

Slicing Process Guidance

04

Routine Equipment Maintenance Guidance

05

Equipment Software System Upgrades

06

Model Printing Troubleshooting

07

Equipment Troubleshooting

08

Spare Parts Replacement

09

Sample Printing Assistance