



SAMA INSTRUMENT



معرفی شرکت

شرکت سما تجهیز آرنای تولید کننده تجهیزات و دستگاه های ابزار دقیق و آزمایشگاهی به منظور استفاده در علوم طبیعی، تحقیقات شیمیایی و صنعتی است. تجهیزات این شرکت به منظور استفاده در محدوده وسیعی از کاربردهای آزمایشگاهی و صنعتی طراحی می گردند. این شرکت با دارا بودن کادر متخصص و با تجربه در صنایع مختلف از جمله ساخت تجهیزات آزمایشگاهی توانسته تجهیزات و قطعات مورد نیاز را با کیفیتی بالاتر و با قیمتی مناسب تر از بازارهای خارجی در داخل عرضه کند.

۰۲۱-۴۴۵۱۴۲۷۴



۰۹۳۵-۱۵۸۷۷۴۸



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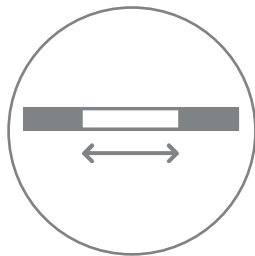
شنبه الی چهارشنبه ساعت ۹ الی ۱۷



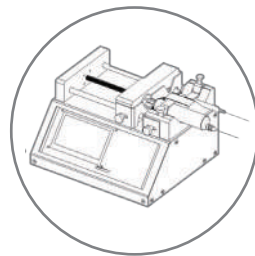
SAMA Dual Channel Modular Syringe Pump



Over 60 compatible syringes (0.5 μ l-60 ml)



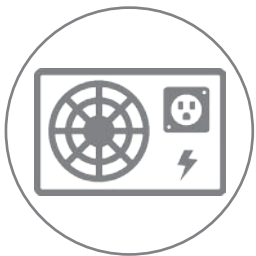
Broad range of infusion rate



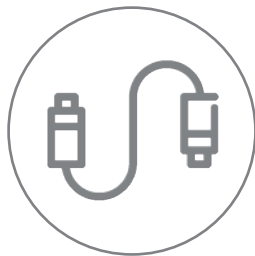
Dual Channel Syringe Pump



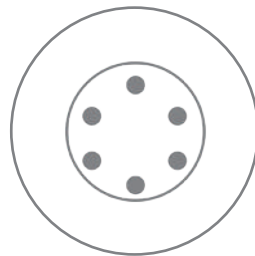
Large Touch Screen with user-friendly UI



Power Supply for safety



Simple USB connection



Military socket with multiple function



Metal Body with Electrostatic Coloring

Technical Specifications

- **Flow rate accuracy:** $\pm 1\%$
- **Number of Channels:** 2
- **Number of Module Controlling:** 4
- **Power supply:** 220 V
- **Weight:** 5.2 (kg)
- **Dimension:** 250×215×150 mm

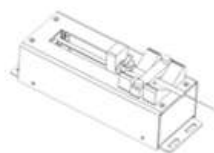
Syringe Volume	Inner Diameter (mm)	Flow Rate (nl/min - ml/min)
0.5 μ l	0.103	0.00167 - 0.0042
5 μ l	0.3275	0.01667 - 0.0417
50 μ l	1.031	0.1669 - 0.417
100 μ l	1.46	0.3348 - 0.837
500 μ l	3.26	1.670 - 4.174
1 ml	4.61	3.339 - 8.347
5 ml	10.3	16.667 - 41.667
10 ml	14.57	33.350 - 83.367
25 ml	23.0	83.106 - 207.777
50 ml	32.6	166.959 - 417.399



Main Syringe Pump



Syringe Pump Modules



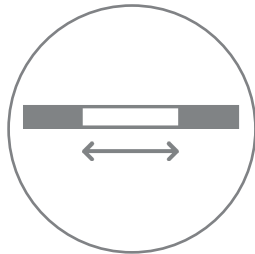
Take Your Pump Function to the Next Level!

Using our Professional Two-Channel Syringe Pump, you can simultaneously control up to 4 syringe pump modules. Hence, you are able to control 6 channels with this device! With the user-friendly UI and large touch and colorful screen, the control of syringe pumps is a piece of cake!

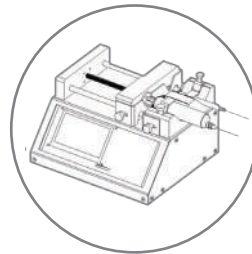
SAMA Syringe Pump Module



Over 60 compatible syringes (0.5 μ l-60 ml)



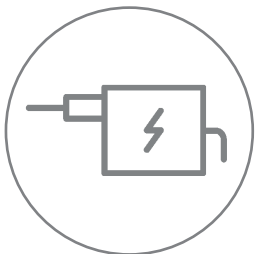
Broad range of infusion rate



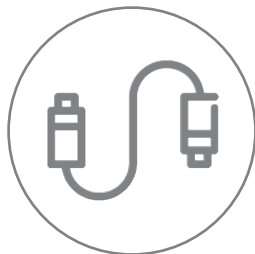
Can be controlled by a separate controller



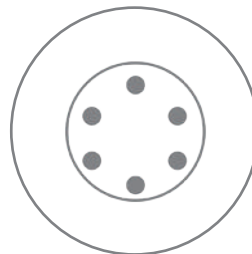
Can be controlled by user friendly software



Adaptor for safety



Simple USB connection



Military socket with multiple function

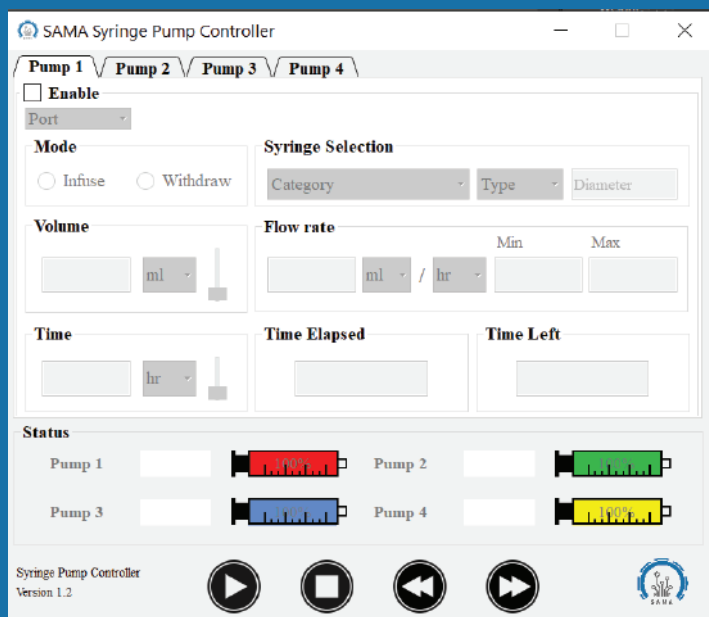


RGB LED for identify in multiple functioning

Technical Specifications

- **Flow rate accuracy:** $\pm 1\%$
- **Connection to PC:** USB Type B
- **Connection to controller:** 6-pin Military
- **Power supply:** 12 V, 2.5 A
- **Weight:** 2.5 (kg)
- **Dimension:** 230×80×100 mm

Syringe Volume	Inner Diameter (mm)	Flow Rate (nl/min - ml/min)
0.5 μ l	0.103	0.00167 - 0.0042
5 μ l	0.3275	0.01667 - 0.0417
50 μ l	1.031	0.1669 - 0.417
100 μ l	1.46	0.3348 - 0.837
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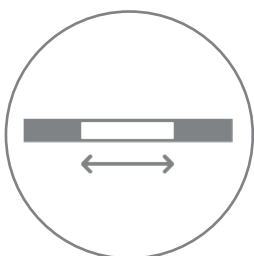


Take Your Pump Control to the Next Level!

"SAMA Syringe Pump Controller" software enables you to connect up to four pumps to your computer and control them individually or as a group. You can automatically monitor all pump parameters.

Get to your results faster.

SAMA OPTICLA VISCOMETER



Can measure viscosity of wide range of liquids



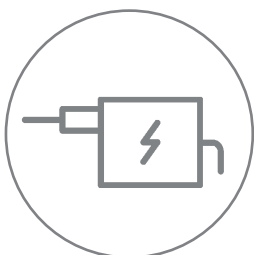
Simple installation



Simple operation



Requires a small amount of liquid



Adaptor for safety



Simple USB connection



Very cost-effective



Metal body with electrostatic coloring

ADVANTAGES

- Simple Operation
- Cost-Effective
- Wide Range of Liquids
- Simple Installation

SPECIFICATIONS

Specification	Amount
Viscosity Range	1 - 1000 cP
Viscosity Measurement Accuracy	±5%
Repeatability	1% of full scale range
Input Ampere	4 A
Input Voltage	12 V DC
Color	Black
LCD	Graphic LCD 128x64
Connection	USB
Package Dimension	185×180×200
Net Weight	3.7 kg

Measure the viscosity in a short time by the following steps!



1. Fill the test tube in the range specified on the container.

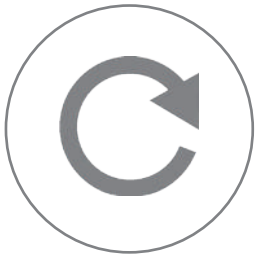
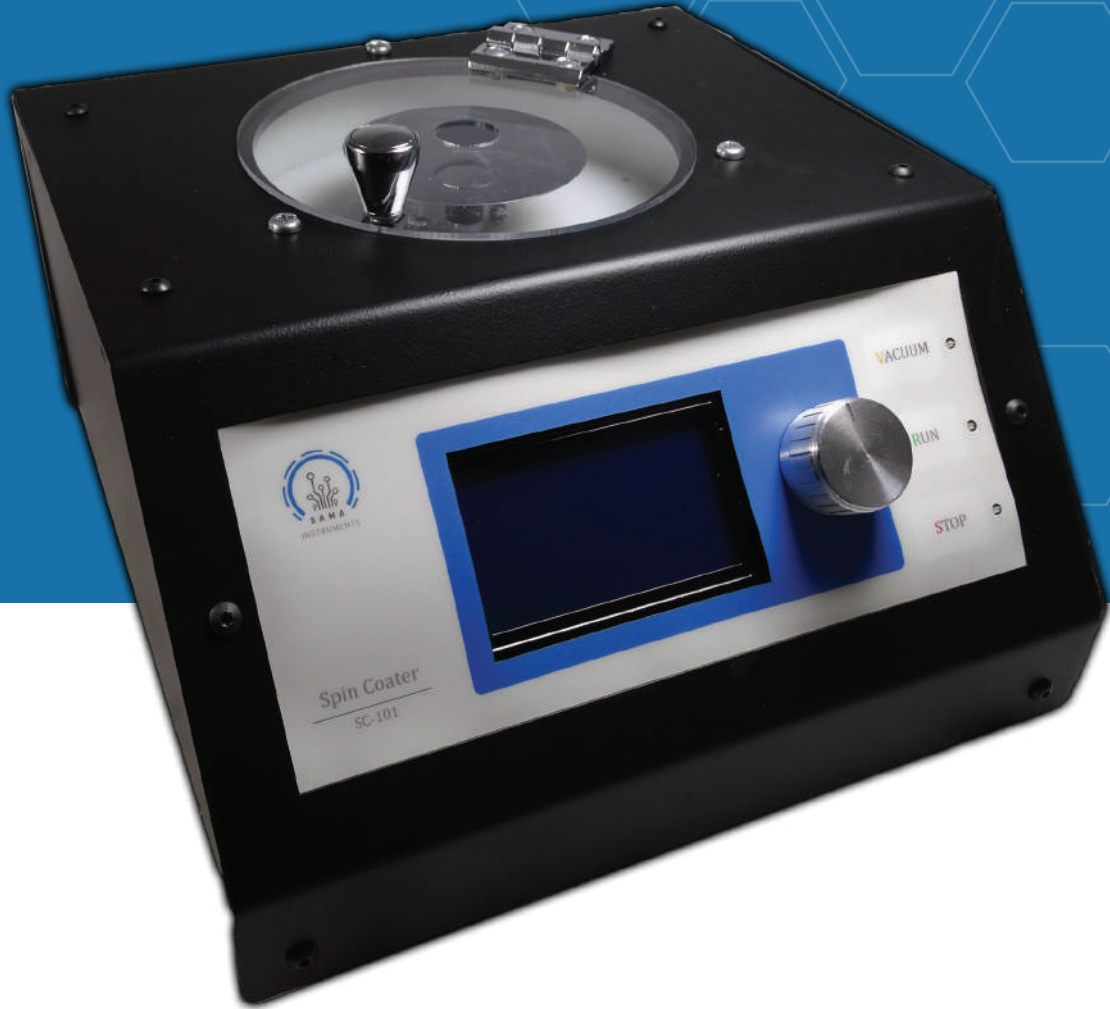
2. Place the container at the specified location.

3. Put the falling ball from the specified place.

4. Start the procedure and then insert the density.

5. That's it! You have the viscosity of your liquid.

SAMA SPIN COATER



Rotational speed between 500 and 10000 rpm



Up to 5 inches samples



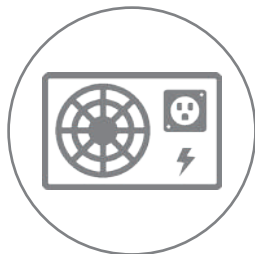
With Vacuum Chucks



Can store more than 10 programs



5 sets programmable control each sets with 5 steps



Power Supply for safety



Cost-effective



Metal body with electrostatic coloring

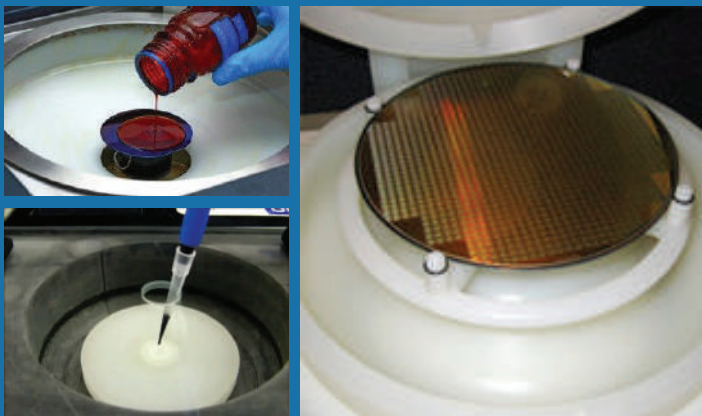
ADVANTAGES

- Affordable spin coater
- Up to 5 inches substrates
- Transparent Lid with syringe holder
- Easy, step- by- step recipe programming

SPECIFICATIONS

Available number of programs	More than 10
Steps per program	Up to 5
Spin speed	500 - 10000 rpm
Heating element	Aluminum Block
Spin speed accuracy	± 1 rpm
Max. acceleration	3000 rpm/sec
Spin time	up to 59 minutes
Housing material	Natural Polypropylene
Package Dimension	250×250×130 mm
Net Weight	5.2 kg

Common Applications



Depositing thin films

Drying

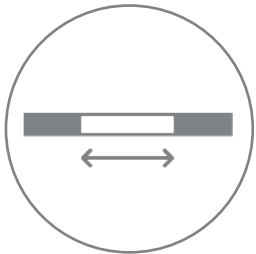
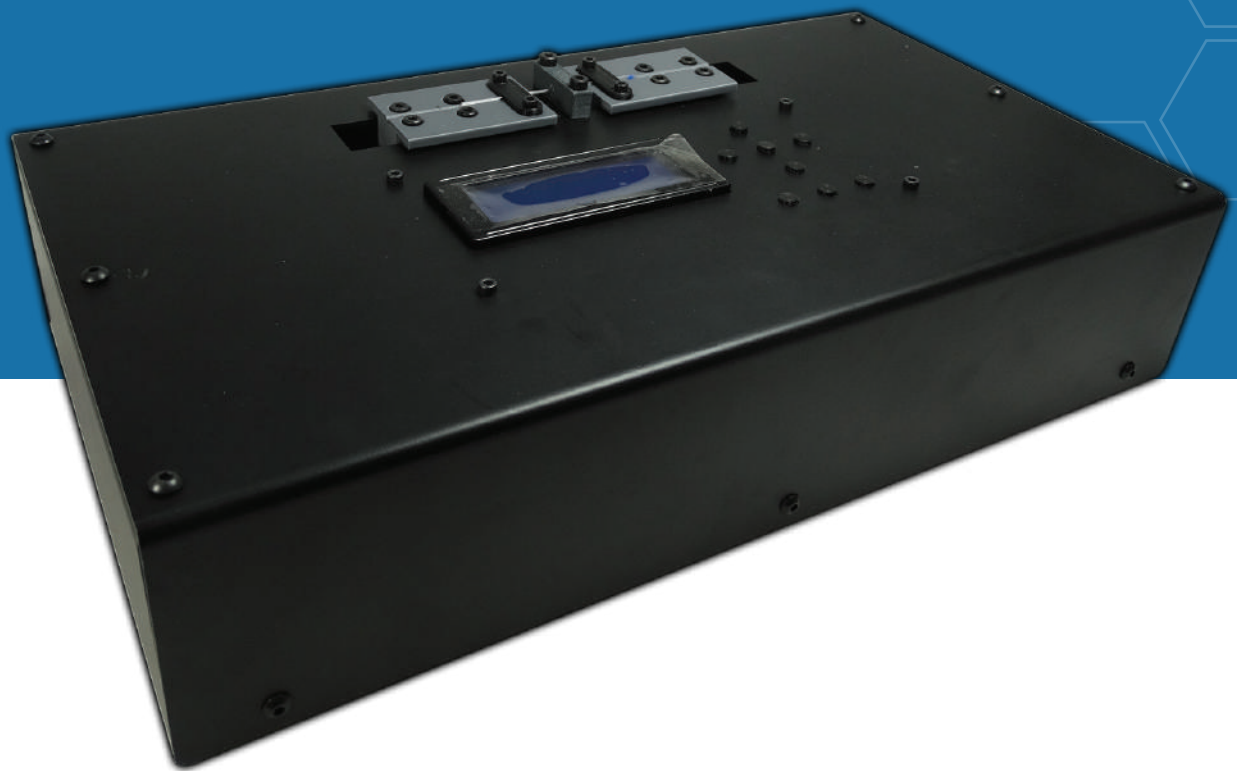
Rinse / Cleaning

Etching

Automatic coating

Sol gel process

SAMA MICROPIPETTE PULLER



Wide range of capillaries



Simple installation



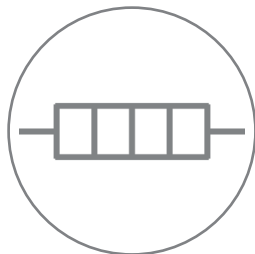
Simple operation



More than 10 default program



Power Supply for safety



Adjustable Heating Element



Cost-effective



Metal body with electrostatic coloring

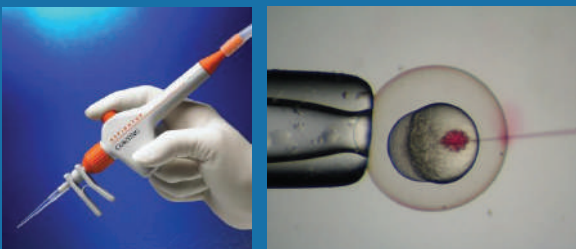
ADVANTAGES

- Simple and Easy to Use
- Digital Display Shows Status and Setting
- Adjustable Heating Value
- Shows Elapsed Time

SPECIFICATIONS

Accessories included	Glass Capillary, AC Power cord
Working voltage	AC220V, 50/60Hz
Power consumption	Approx. 80W
Heating element	Aluminum Block
Range of capillaries	1 to 1.5 mm OD
Maximum Capillary Length	150 mm
Minimum Capillary Length	55 mm
LCD	LCD charecter display, 20×4
Package Dimension	375×200×90 mm
Net Weight	6.3 kg

Common Applications



Patch pipettes

Sharp electrodes

Aspiration pipettes

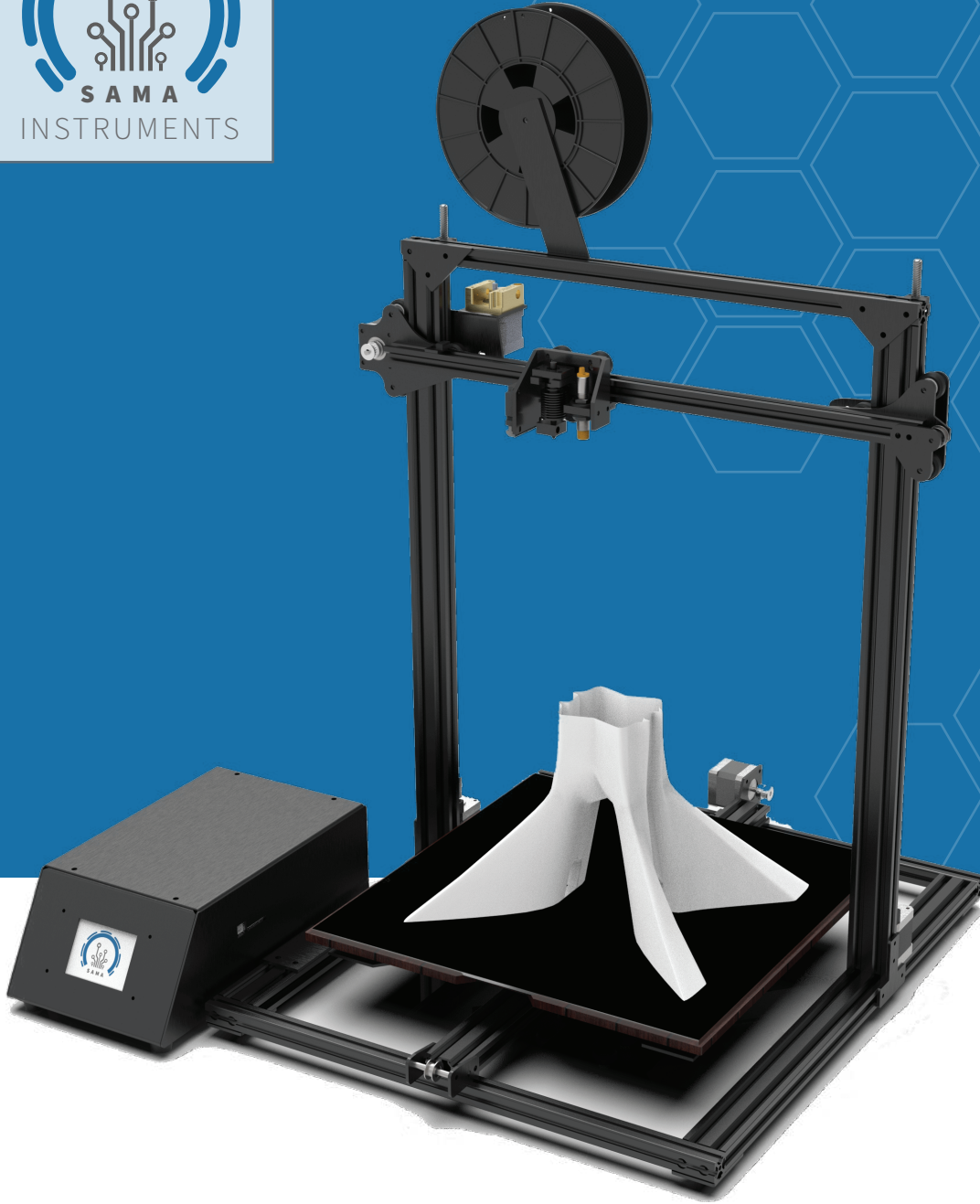
Zebrafish injection

Insect egg injection

Pronuclear injection



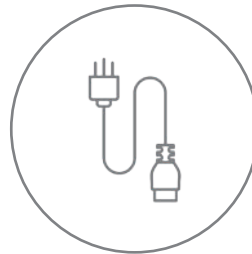
SAMA 3D PRINTERS



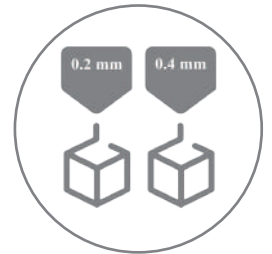
Fine printing



Simple installation



Resume printing



High precision nozzle



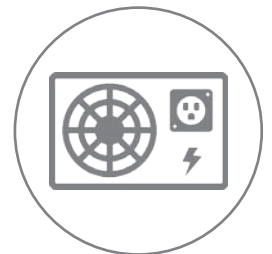
Touch screen



Strong structure design



Heat bed



Power supply for safety

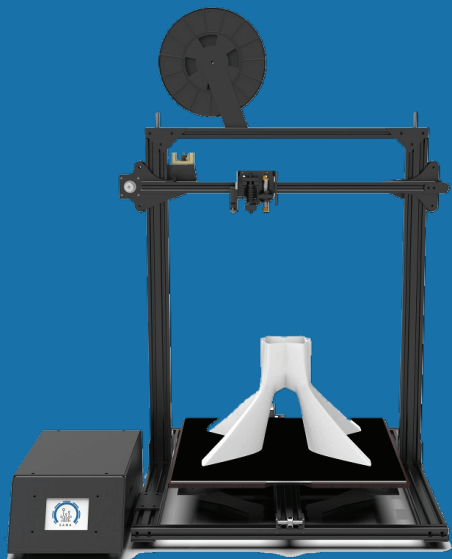
ADVANTAGES

- Open source
- Plug and Play driver
- Resume print function
- Highly affordable

SPECIFICATIONS

Model	SFDM 3	SFDM 3 Pro	SFDM 4	SFDM 4 Pro
Printing Technology	FDM	FDM	FDM	FDM
Color	Black	Black	Black	Black
Build Volume (L×W×H)	300×300×400	300×300×400	400×400×450	400×400×450
LCD Touch Screen	No	Yes	No	Yes
Print Resume	No	Yes	No	Yes
Input Voltage	200-240V AC	200-240V AC	200-240V AC	200-240V AC
Output Voltage	12V DC/ 15 A	12V DC/ 15 A	12V DC/ 15 A	12V DC/ 15 A
Printing Speed	20-80 mm/s	20-80 mm/s	20-80 mm/s	20-80 mm/s
Layer Height	0.1-0.4 mm	0.1-0.4 mm	0.1-0.4 mm	0.1-0.4 mm
Nozzle Diameter	0.4 mm	0.4 mm	0.4 mm	0.4 mm
Support Software	Cura	Cura	Cura	Cura
Connection	USB or SD Card	USB or SD Card	USB or SD Card	USB or SD Card
Package Dimension	600×600×600	600×600×600	800×700×700	800×700×700
Net Weight	8.2 kg	8.2 kg	12.5 kg	12.5 kg

APPLICATIONS



ARCHITECTS

MANUFACTURERS

MAKERS

ARTS & CRAFTS

ENTHUSIAST

HOMEMADE TOYS

HEALTH CARE

DECORS