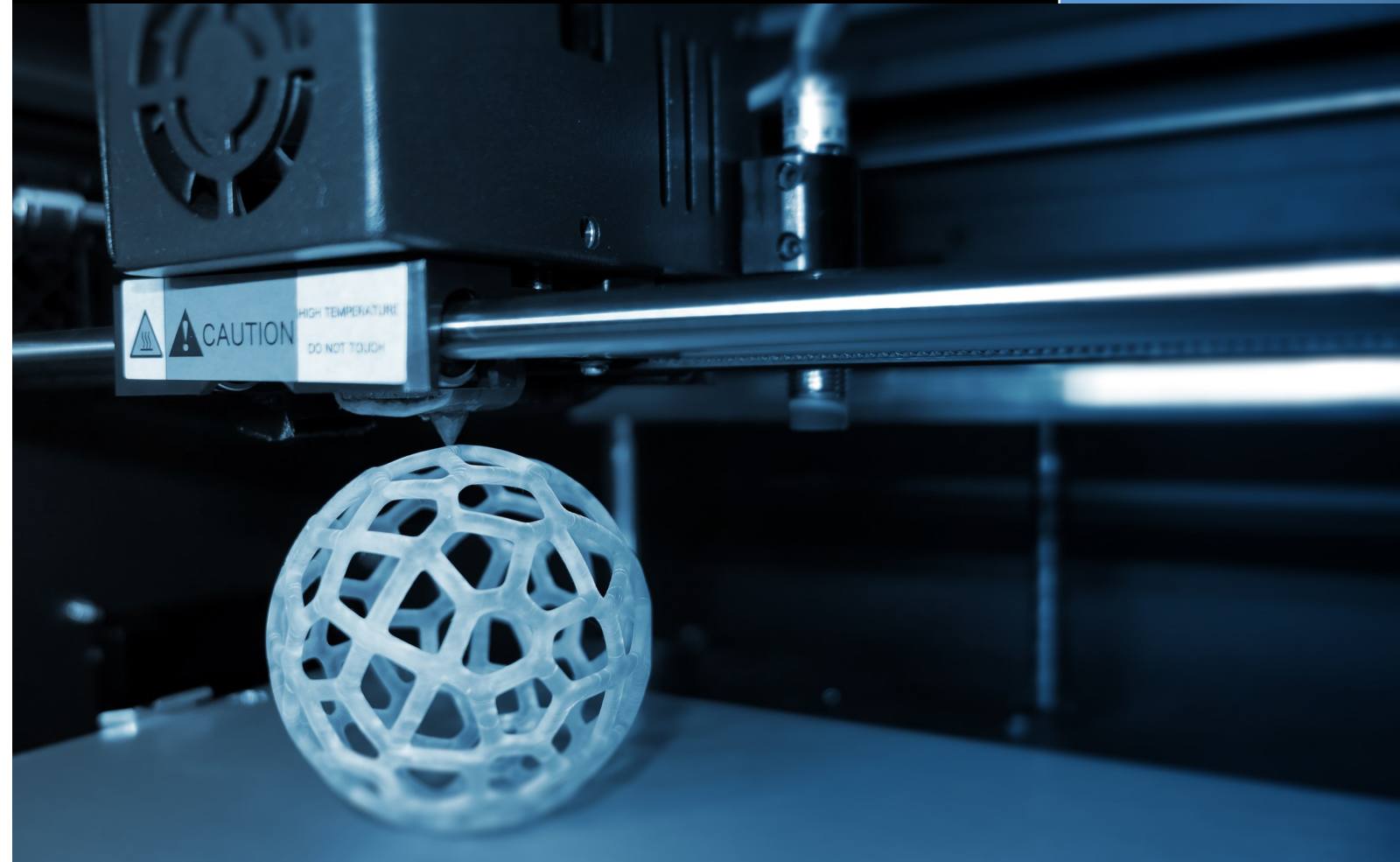


Customer satisfaction is our eternal pursuit!



**Jiangsu Minrean Technology Co., Ltd.**

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# 3D PRINTER CATALOG

Jiangsu Minrean Technology Co.,Ltd.

3D printing industry leader

Since 2018



COMPANY  
**PROFILE**

### About Us

Jiangsu Minreon Technology Co., Ltd., located in Wu-xi city, near Shanghai, is a hi-tech company specializing in 3D printing complete industrial chain.

### What we do

Integrating R&D, production and sales services. Minreon offers complete solutions for 3D printer, printing filaments and printing service with high technology and high quality.

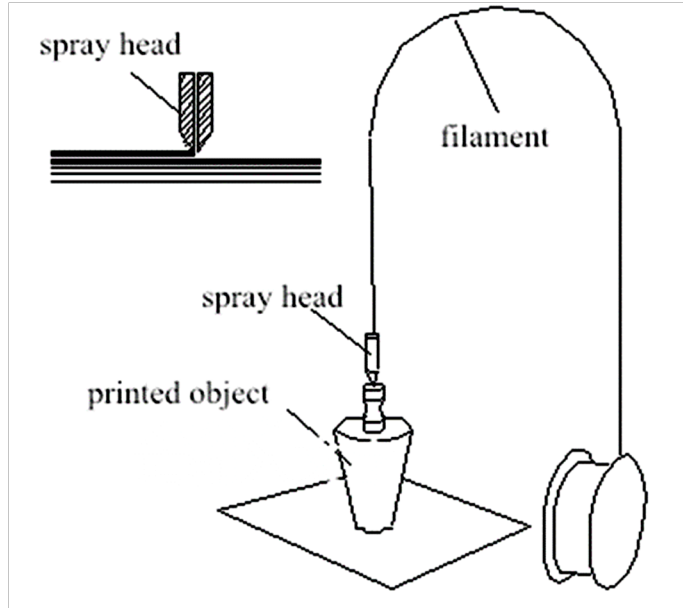
### Why us

Two R&D and production bases  
Own factory  
Strict testing and quality control  
Excellent service and support

## FDM 3D PRINTING

### About Fused deposition modeling (FDM)

Fused deposition modeling (FDM, also known as Fused filament fabrication FFF) or called filament freeform fabrication, is a 3D printing process that uses a continuous filament of a thermoplastic material. Filament is fed from a large spool through a moving, heated printer extruder head, and is deposited on the growing work. The print head is moved under computer control to define the printed shape.



### FDM MATERIAL FEATURES



Colorful



Wide range of materials



Strong & Stable



Specialised Properties

### FDM APPLICATIONS



Anime



Prototype



Architecture



Education

## Desk-Grade FDM Printer: WISDREAM-BGF100

 **AUTO  
LEVELING**

 **SMALL  
FOOTPRINT**

 **AMAZING  
PERFOR-  
MANCE**



A 3D Printer for kids& beginners. The small 3D printer is fully assembled. With the simplest setup, you can use it right out of the box. The plug-and-play 3D printer can be the first 3D printer for beginners who are interested in 3D printing and modeling.

## TECHNICAL SPECIFICATIONS OVERVIEW

|                      |                                    |
|----------------------|------------------------------------|
| Printing technology  | Fused Deposition Modeling (FDM)    |
| Desktop space        | 210x 210x 290 mm                   |
| Build Volume         | 100 x 100 x 100 mm                 |
| Machine weight       | 3kgs, portable, easy to carry      |
| Filament type        | PLA/TPU Filament , 1.75mm diameter |
| Connection           | USB,SD Card                        |
| Extruder             | Single extruder                    |
| Nozzle diameter      | 0.4 mm                             |
| Build plate leveling | Automatic leveling                 |
| Supplied Software    | Cura, Simplify3d                   |
| File types           | .stl                               |

Fully assembled, no assembly hassle, start to print out of box

One-touch build bed auto-leveling

Pause & Resume Printing

LCD Display& control knob

Detachable and flexible magnetic plate

12V safe low voltage, anti-scalding design for extruder

## TECHNICAL SPECIFICATIONS OVERVIEW

### Desk-Grade FDM Printer: WISDREAM-BGF150



**SAFE& STABLE**



**SMART**



**PROFESSIONAL**



A 3D Printer for DIY makers, designers etc. Extremely Safe, Simple and Reliable. The 3D printer is fully enclosed equipped with multiple functions and high compatibility with different 3D printing filaments making your printing more free.

#### Printing

|                      |                                 |
|----------------------|---------------------------------|
| Max precision        | 0.06mm                          |
| Layer Resolution     | 0.1-0.4mm adjustable            |
| Nozzle Diameter      | 0.4mm                           |
| Build Volume         | 200X180X180mm                   |
| Machine size         | 410X405X483mm                   |
| Nozzle Speed         | 20-150mm/s                      |
| Build Plate          | Quick Release heating platform  |
| Positioning Accuracy | Z Axis 0.0025mm XY Axis 0.011mm |

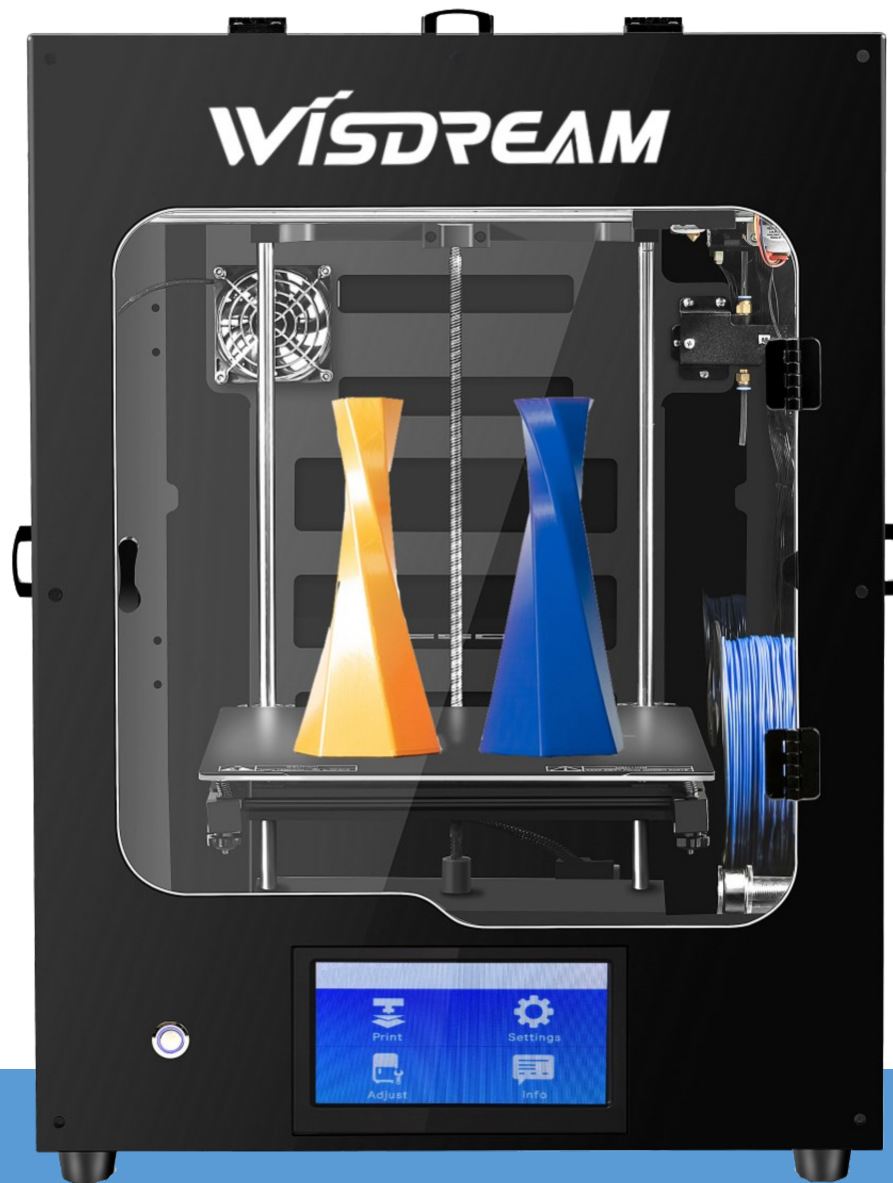
#### Equipment Characteristic

|                |  |
|----------------|--|
| Structure      | Fully enclosed metal structure                     |
| Touch screen   | 4.3" Full touch screen                             |
| Open Direction | Four side open, transparent doors                  |
| Air Filtration | Three layer filter                                 |
| Platform       | Removable and heated glass platform                |
| Power Off Mode | Auto shutdown after printing<br>Emergency shutdown |


#### Filament& Software

|                                    |                                 |
|------------------------------------|---------------------------------|
| Filament Compatibility             | PLA,ABS,TPU,Nylon,PETG          |
| Printing Mode                      | USB, SD card                    |
| Software                           | ReplicatorG, Cura               |
| Supported File types               | STL/GCODE/OBJ                   |
| Operation Systems                  | Windows(XP,7,10),MacOSX(10,10+) |
| One-click Filament Feeding/Retract |                                 |
| Pause & Resume Printing            |                                 |
| Filament breakage detection        |                                 |

## Desk-Grade FDM Printer: WISDREAM-BGF370X



 **INDEPENDENT  
DUAL EXTRUSION**

 **HIGH  
RESOLUTION**

 **SMART**

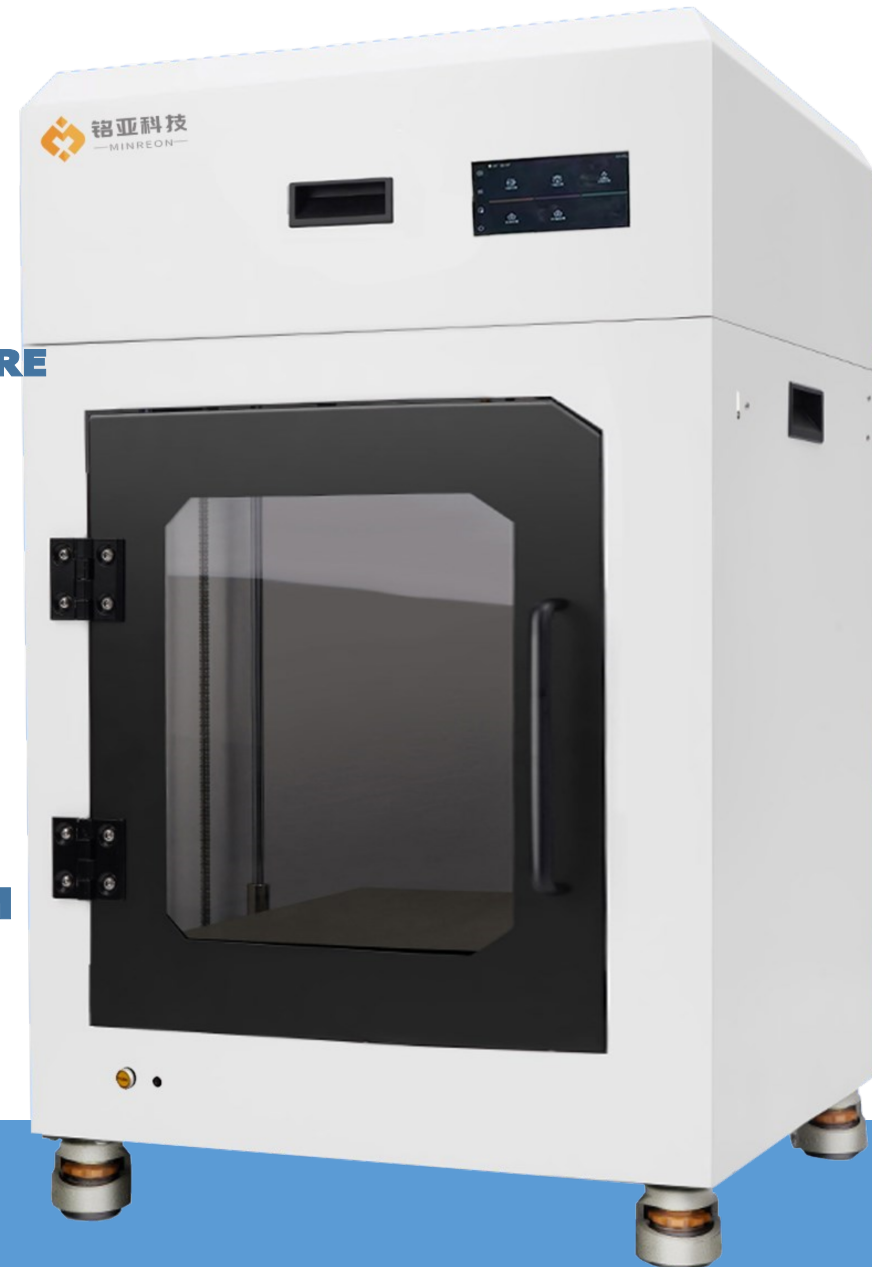
The fully-enclosed WISDREAM BGF370X adds the ability to 3D print with more than one color, mix and match materials, and soluble supports. In addition, users get access to adaptive functions like 3D printing with Mirror Mode and Duplication Mode for industrial and small business applications, double the productivity.

## TECHNICAL SPECIFICATIONS OVERVIEW

| Printing                           |   |
|------------------------------------|---|
| Max precision                      | 0.06mm  |
| Layer Thickness                    | 0.1-0.4mm adjustable  |
| Nozzle Diameter                    | 0.4mm   |
| Build Volume                       | 300X300X370mm   |
| Nozzle Speed                       | 20-150mm/s  |
| Build Plate                        | Quick Release heating platform, max temperature 100°C             |
| Positioning Accuracy               | Z Axis 0.0025mm XY Axis 0.011mm                                   |
| Equipment Characteristic           |   |
| Structure                          | Fully enclosed metal structure                                    |
| Extruder                           | Independent dual extruders  |
| Touch screen                       | 4.3" Full touch screen  |
| Machine size                       | 510X490X670mm   |
| Machine weight                     | 33kg  |
| Open Direction                     | Four side open, transparent doors                                 |
| Air Filtration                     | Three layer filter  |
| Filament& Software                 |   |
| Filament Compatibility             | PLA,PLA Pro, ABS, PVA,ASA etc.                                    |
| Printing Mode                      | Monochrome print, dual-color print, duplicate print, mirror print |
| Connection                         | USB,SD card   |
| Software                           | Cura/Simplify3D   |
| Supported File types               | STL/GCODE/OBJ   |
| One-click Filament Feeding/Retract |   |
| Pause & Resume Printing            |   |
| Filament breakage detection        |   |

Large Format Industrial FDM Printer

## WISDREAM-BGF600



WISDREAM-BGF600 is an easy-use and powerful 3D printer for everyone, for education, 3D design, print training, home DIY, design prototyping, and small-scale production.

Equipped with high-end closed-loop servo motor, thermostatic chamber, air filter, filament detection, magnetic flexible build platform, BGF600 allows exceptional 3D printing, ultra quiet, high speed, high precision. With high performance heating system with extruder max temperature 320°C and platform max temperature 120°C, versatile filaments are supported.

## TECHNICAL SPECIFICATIONS OVERVIEW

| Printing   |   |
|--|---|
| Max precision  | 0.06mm  |
| Layer Thickness  | 0.1-0.4mm adjustable                            |
| Nozzle   | 0.4mm, max temp. 320°C                          |
| Build Volume   | 500X500X600mm                                   |
| Nozzle Speed   | 20-150mm/s                                      |
| Build Plate  | Quick Release heating platform, max temp. 120°C |
| Positioning Accuracy   | Z Axis 0.0025mm XY Axis 0.011mm                 |
| Equipment Characteristic   |   |
| Structure  | Fully enclosed metal structure                  |
| Touch screen   | 3.5" Full touch screen                          |
| Machine size   | 720X670X1030mm                                  |
| Machine weight   | 85kg  |
| Open Direction   | Front& up side open                             |
| Air Filtration   | Dual fan filter                                 |
| Filament& Software   |   |
| Filament Compatibility   | PLA, ABS,PETG,TPU,PA, ASA, PLA+CF etc.          |
| Printing Mode  | USB, SD card                                    |
| Software   | Simplify3D                                      |
| Supported File types   | STL/GCODE/OBJ                                   |
| High-end closed-loop servo motor, ultra quiet but high speed 3D printing |   |
| New generation high performance heating system                           |   |
| Extruder can be heated up to 320°C.Printing is smooth without clogging.  |   |
| Dual cooling system for better molding cooling                           |   |
| One-click Filament Feeding/Retract                                       |   |
| Pause & Resume Printing  |   |
| Filament breakage detection  |   |

## Large Format Industrial FDM Printer

# WISDREAM-BGF1000



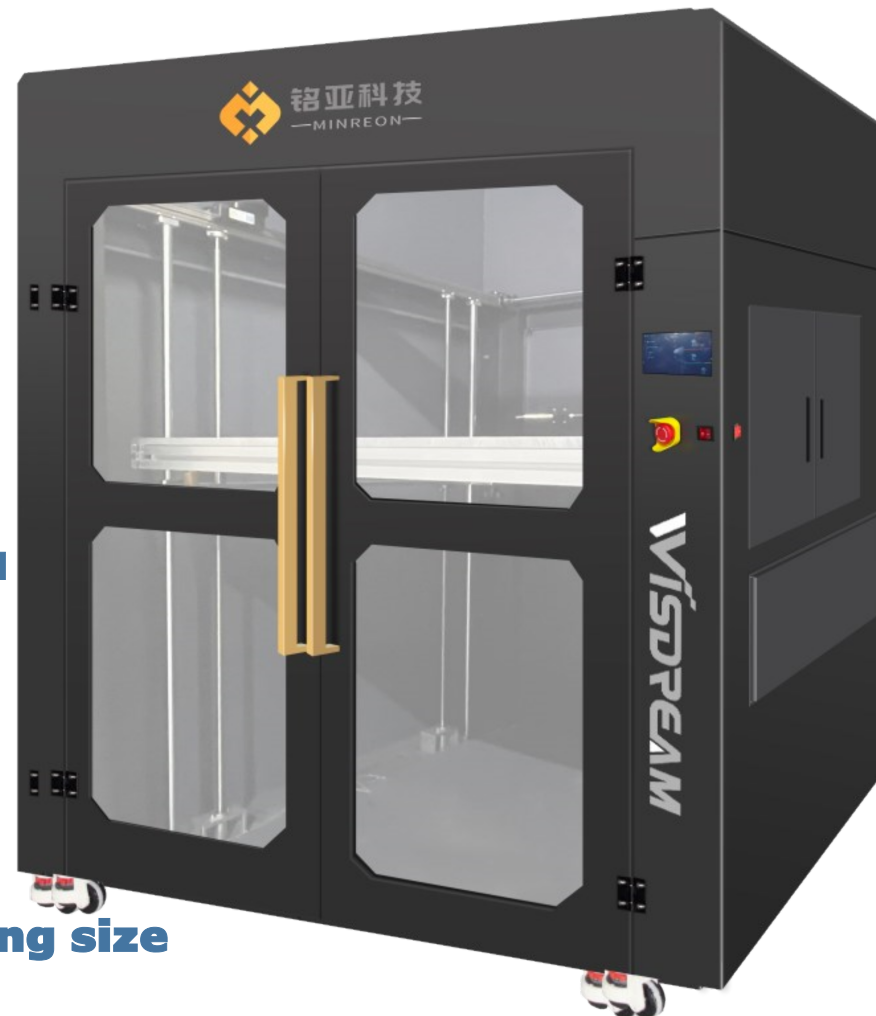
**SAFE & STABLE**



**1000x1000x1000MM**



**Industrial-grade  
super large printing size**



## TECHNICAL SPECIFICATIONS OVERVIEW

|  | Printing  |
|--|---|
| Max precision  | 0.0125mm  |
| Layer Thickness  | 0.05-0.6mm  |
| Nozzle   | 0.4mm/0.6mm/0.8mm/1.0mm,max temp. 300°C             |
| Build Volume   | 1000X1000X1000mm                                    |
| Nozzle Speed   | 30-350mm/s  |
| Build Plate  | Upgraded and thickened 12mm metal platform,30-100°C |
| Equipment Characteristic                               |   |
| Structure  | Fully enclosed metal structure                      |
| Touch screen   | 7" Full touch screen                                |
| Machine size   | 1340X1590X1950mm                                    |
| Open Direction   | Front& up side open                                 |
| Air Filtration   | Fan filter  |
| Filament& Software                                     |   |
| Filament Compatibility                                 | PLA、ABS、PETG、PLA-CF、PA、PA-CF、TPU etc.               |
| Printing Mode  | USB, SD card  |
| Software   | Simplify3D  |
| Supported File types                                   | STL/GCODE/OBJ                                       |
| High-end servo motor, quiet but high speed 3D printing |   |
| One-click Filament Feeding/Retract                     |   |
| Pause & Resume Printing                                |   |
| Filament breakage detection                            |   |

WISDREAM-BGF1000 is an easy-use and powerful large-scale 3D printer for education, 3D design, print training, design prototyping, and small-scale production. featuring an impressive build volume of 1000 x 1000 x 1000 mm. Its fully enclosed metal chamber ensures a stable printing environment, compatible with a wide range of materials, including PLA, ABS, PETG, PLA-CF, PA, PA-CF, and TPU.

BGF1000 is equipped with advanced features such as Pause & Resume Printing and filament detection, ensuring uninterrupted operation and minimizing material waste.

Driven by industrial-grade servo motors for the XY axis and a four-axis linkage system for the Z axis, the BGF1000 delivers exceptional accuracy and reliability for all your 3D printing needs.

Desktop High-Performance PEEK 3D Printer

## WISDREAM-BGF220HT



WISDREAM High-Performance 3D Printer BGF220HT is based on the principle of Fuse Deposition (FFF) technology. With an extruder temperature of 450°C, a hot bed of 150°C, and a chamber temperature of 90°C, a 220mm<sup>3</sup> Build Volume, capable of supporting most plastics on the market, BGF220HT is a printer specifically designed for working with engineering plastics.

## TECHNICAL SPECIFICATIONS OVERVIEW

| Printing                 |   |
|--------------------------|---|
| Technology               | FDM   |
| Build volume             | 220*220*220 mm  |
| Extruder                 | Single extruder   |
| Max printing temperature | 450°C   |
| Max chamber temperature  | 90°C  |
| Max hotbed temperature   | 150°C   |
| Nozzle Diameter          | 0.4 mm  |
| Layer Thickness          | 0.05-0.3 mm   |
| Equipment Characteristic |   |
| Structure                | Fully enclosed metal structure  |
| Nozzle material          | 0.4 mm(standard)<br>0.2/0.6/0.8/1.0mm(optional)   |
| Platform fixed           | Clamps grip   |
| Platform material        | Carbon fiber (standard)<br>Glass  |
| Machine size             | 505*435*515 mm  |
| N.W.                     | 35KG  |
| Package size             | 53.5cm (L)* 46.5cm (W) * 67.5cm (D)   |
| G.W.                     | 51 KG   |
| Power                    | 200-250V ,50~60Hz ,950W   |
| Filament& Software       |   |
| Filament Compatibility   | PEEK, CF-PEEK, PEKK, CF-PEKK, PEI 1010/9085, PPSU, PC, CF-PC, PA, CF-PA, GF-PA, ASA, ABS, CF- |
| Printing Mode            | USB, SD card  |
| Software                 | Cura  |
| Supported File types     | STL/GCODE   |
| Power failure recovery   |   |
| No Filament warning      |   |
| Auto leveling            |   |

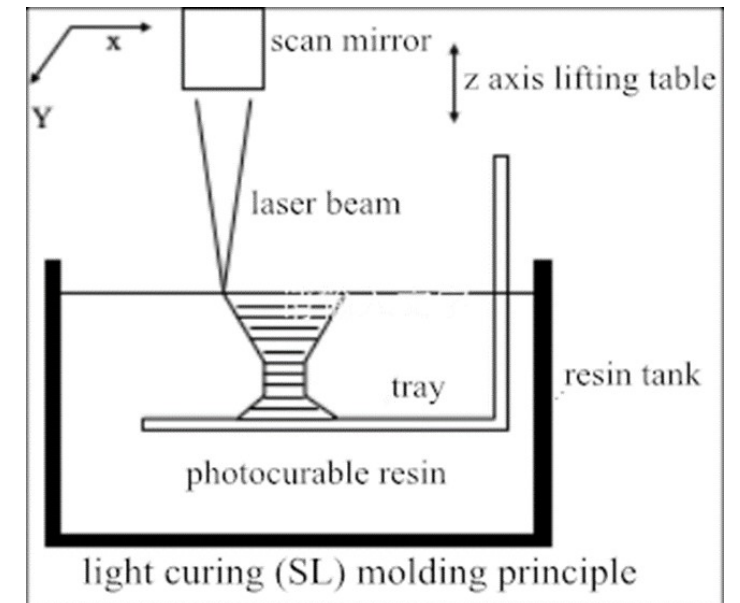


# MORE SIZES FOR FDM PRINTER

# SLA 3D PRINTING

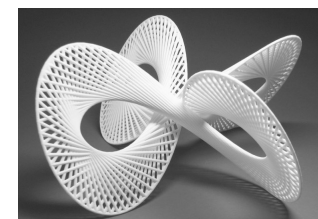
## About Stereolithography (SLA)

Stereolithography (SLA or SL; also known as vat photopolymerisation, optical fabrication, photo-solidification, or resin printing) is a form of 3D printing technology used for creating models, prototypes, patterns, and production parts in a layer by layer fashion using photochemical processes by which light causes chemical monomers and oligomers to cross-link together to form polymers. Those polymers then make up the body of a three-dimensional solid.

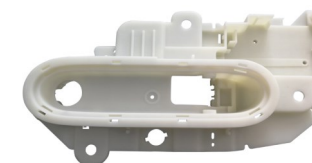


| Model            | Build Volume        | Extruder |
|------------------|---------------------|----------|
| WISDREAM-BGF100  | 100x100x100mm       | 1        |
| WISDREAM-BGF150  | 200x180x180mm       | 1        |
| WISDREAM-BGFD170 | φ120x 170 mm        | 1        |
| WISDREAM-BGF200  | 200x200x200mm       | 1        |
| WISDREAM-BGF250  | 250x250x250mm       | 1        |
| WISDREAM-BGF300  | 300x300x300mm/400mm | 1        |
| WISDREAM-BGF370X | 300X300X370mm       | 2        |
| WISDREAM-BGF600  | 500x500x600mm       | 1        |
| WISDREAM-BGF1000 | 1000x1000x1000mm    | 1        |
| WISDREAM-BGF1500 | 1500x1500x1500mm    | 1        |

## SLA MATERIAL FEATURES



Rigid



Tough & Durable

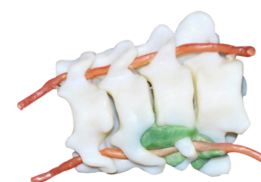


Clear



Castable

## SLA APPLICATIONS



Healthcare



Prototype



Architecture



Mass customization



Automotive

More print sizes and requirements can be customized. Contact us for more details.

# Industrial SLA Printer

## WISDREAM-BGSA600



### Rapid Stable Safe Production

A powerful, high-intensity laser, rapid print speed, distributed and modular machine design for easy maintenance, quality-guaranteed key components from global and local reputable brands, smart control system



### High-Quality Parts, Production-Like Surface Finish

Laser spot size 100 $\mu$ m, printing resolution 75 $\mu$ m



### Maximum Efficiency

Simple navigating interface, simple print preparation, one-click print, automatic resin dispensing



### Open Source Resin for a Wide Range of Application

An open resin system design for a great material compatibility covering various of applications or for the creation of future resin material specific to industry needs, from prototyping to the end-use part production, casting patterns, molds, tooling, fixtures and medical models, meeting different demands.

## TECHNICAL SPECIFICATIONS OVERVIEW

| PRINTING                             |   |
|--------------------------------------|---|
| Printing technology                  | Stereolithography (SLA)   |
| Type of resin                        | Photopolymer resin  |
| Max. Build Volume (X*Y*Z)            | 600×600×400mm   |
| Resin Vat volume                     | 175L (approx. 200kg)  |
| LASER SYSTEM                         |   |
| Type of Laser                        | Diode-pumped solid-state laser Nd:YVO4  |
| Wavelength                           | $\lambda=355\text{nm}$  |
| OPTICAL & SCANNING                   |   |
| Beam (Diameter@1/e <sup>2</sup> )    | $\phi 0.10\text{-}\phi 0.12\text{mm}$   |
| Scanning                             | Galvanometric scanning  |
| Scanning Speed                       | Part scanning speed: recommend 6.0m/s<br>Part crossover speed: recommend 10.0m/s                        |
| RECOATING SYSTEM                     |   |
| Process                              | Intelligent positioning vacuum adsorption coating, precisely control the liquid resin coating thickness |
| Normal layer thickness               | 0.1mm   |
| Rapid production layer thickness     | 0.125mm   |
| Precision production layer thickness | 0.075mm   |
| Special production layer thickness   | 0.05mm-0.20mm optional  |
| PRECISION                            |   |
| Vertical resolution                  | 0.0002mm  |
| Z axis repeat positioning accuracy   | +0.01mm   |
| SOFTWARE                             |   |
| Control system:                      | RSCON5.5  |
| File types                           | STL   |
| INSTALLATION CONDITION               |   |
| Power:                               | 200-240VAC 50/60Hz, single-phase, 15Amps<br>(Available according to local voltage standard)             |
| Installation ground                  | Solid, level, no vibration  |
| Ambient Temperature                  | 22-25°C (71.6-77°F)   |
| Relative Humidity                    | Less than 40%   |

# MORE SIZES FOR SLA PRINTER

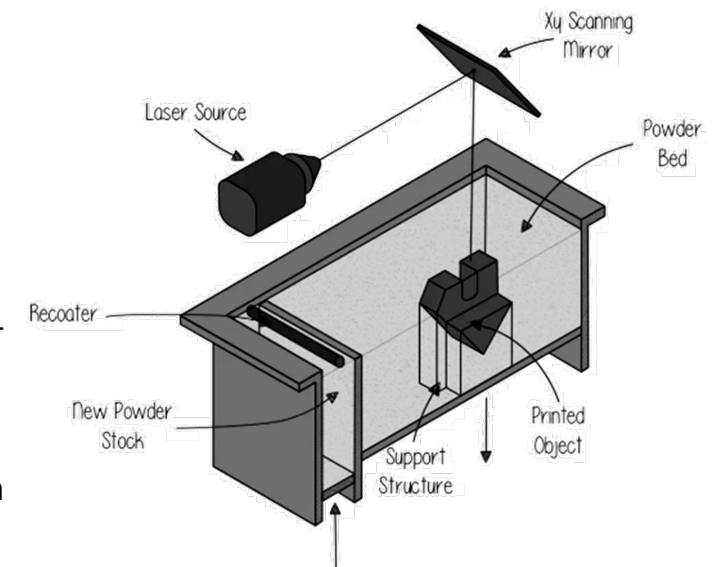
## SLM 3D PRINTING

### About Selective laser melting (SLM)

Selective laser melting (SLM) is one of many proprietary names for a metal additive manufacturing (AM) technology that uses a source of heat from high power-density laser to melt and fuse metallic powders together to create metal parts.

SLM is one of the most exciting 3D printing technologies available today and is utilized both for rapid prototyping and mass production.

The range of metal alloys available is fairly extensive. The end result has properties equivalent to those manufactured via traditional manufacturing processes.



### SLM MATERIAL FEATURES



Wide range of materials



Excellent mechanical properties

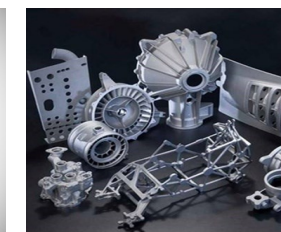
### SLM APPLICATIONS



Aerospace



Healthcare



Prototype



Mass customization



Automotive

| Model             | Build Volume   | Laser |
|-------------------|----------------|-------|
| WISDREAM-BGSA350  | 350x350x200mm  | 1     |
| WISDREAM-BGSA450  | 450x450x300mm  | 1     |
| WISDREAM-BGSA600  | 600x600x400mm  | 1     |
| WISDREAM-BGSA800  | 800x800x450mm  | 1     |
| WISDREAM-BGSA1000 | 1000x800x600mm | 1     |
| WISDREAM-BGSA1200 | 1200x800x600mm | 2     |
| WISDREAM-BGSA1600 | 1600x800x600mm | 2     |
| WISDREAM-BGSA1800 | 1800x800x700mm | 2     |

More print sizes and requirements can be customized. Contact us for more details.

# Desk-Grade SLM Printer

## WISDREAM-BGSM100S



### Office-Friendly

Designed for quick results of R&D sector, as well as for the production of small build high-accuracy parts



### Super performance

Support breakpoint continuation; Closed loop error proofing design; One key back to zero powder laying; One key pick up; Maximum forming speed 3cm<sup>3</sup>/h



### High-Quality Parts

Dimension accuracy 50 ± 0.08

## TECHNICAL SPECIFICATIONS OVERVIEW

| PRINTING                              |   |
|---------------------------------------|---|
| Printing technology                   | Selective laser melting (SLM)   |
| Type of metallic powder               | Stainless Steel Powder, Aluminum Powder   |
| Max. Build Volume (X*Y*Z)             | 100×100×100mm   |
| Max. weight of one-time produced part | 5kg   |
| LASER SYSTEM                          |   |
| Type of Laser                         | Fiber laser   |
| Wavelength                            | 1064nm  |
| Power                                 | 200W  |
| OPTICAL & SCANNING                    |   |
| Beam (Diameter@1/e <sup>2</sup> )     | 70-200μm  |
| Scanning                              | Galvanometric scanning  |
| Scanning Speed                        | Part scanning speed: recommend 0.6m/s<br>Part crossover speed: recommend 2.5m/s |
| RECOATING SYSTEM                      |   |
| Powder spreading method               | Built in powder tank  |
| Normal layer thickness                | 0.02~0.20mm continuously adjustable   |
| Max. forming speed                    | 3cm <sup>3</sup> /h   |
| PRECISION                             |   |
| Forming accuracy                      | 50 ± 0.08   |
| Vertical resolution                   | 0.005mm   |
| Repeat positioning accuracy           | 0.008mm   |
| SOFTWARE                              |   |
| Machine tool control software         | BuildProcessor  |
| Machine tool software interface       | aff file  |
| Industrial computer operating system  | Win7& above   |
| Network type and protocol             | EtherCAT/ModBus   |
| INSTALLATION CONDITION                |   |
| Power:                                | 380V 50/60Hz(220V supported)  |
| Installation ground                   | Solid, level, no vibration  |
| Ambient Temperature                   | 20-26 °C (68-78.8 °F)   |
| Relative Humidity                     | Less than 40%   |

## Industrial SLM Printer

# WISDREAM-BGSM500



### Ultra Large Format, Rapid Production

Designed for quick results of R&D sector, mass customization



### Super performance, Maximum Efficiency

Quadruple lasers, smart control system, high speed, high throughput



### High-Quality Parts

Dimension accuracy  $100 \pm 0.1/400 \pm 0.2$

## TECHNICAL SPECIFICATIONS OVERVIEW

### PRINTING

|                                       |   |
|---------------------------------------|---|
| Printing technology                   | Selective laser melting (SLM)   |
| Type of metallic powder               | Titanium alloy powder, aluminum alloy powder, stainless steel powder etc. |
| Max. Build Volume (X*Y*Z)             | 500×500×480mm   |
| Max. weight of one-time produced part | 600kg   |

### LASER SYSTEM

|               |                        |
|---------------|------------------------|
| Type of Laser | Quadruple fiber lasers |
| Wavelength    | 1064nm                 |
| Power         | 500W+500W+500W+500W    |

### OPTICAL & SCANNING

|                                   |                                |
|-----------------------------------|--------------------------------|
| Beam (Diameter@1/e <sup>2</sup> ) | 70-200μm                       |
| Scanning                          | Galvanometric scanning         |
| Scanning Speed                    | Part scanning speed 0.2-1.8m/s |
|                                   | Part crossover speed 2.5m/s    |

### RECOATING SYSTEM

|                        |                                    |
|------------------------|------------------------------------|
| Normal layer thickness | 0.02~0.2mm continuously adjustable |
| Max. forming speed     | 3cm <sup>3</sup> /h                |

### PRECISION

|                             |                           |
|-----------------------------|---------------------------|
| Forming accuracy            | $100 \pm 0.1/400 \pm 0.2$ |
| Vertical resolution         | 0.005mm                   |
| Repeat positioning accuracy | 0.008mm                   |

### SOFTWARE

|                                      |                 |
|--------------------------------------|-----------------|
| Machine tool control software        | BuildProcessor  |
| Machine tool software interface      | aff file        |
| Industrial computer operating system | Win7& above     |
| Network type and protocol            | EtherCAT/ModBus |

### INSTALLATION CONDITION

|                     |                            |
|---------------------|----------------------------|
| Power:              | 380V 50/60Hz               |
| Installation ground | Solid, level, no vibration |
| Ambient Temperature | 20-26°C (68-78.8°F)        |
| Relative Humidity   | Less than 40%              |

# MORE SIZES FOR SLM PRINTER

| Model             | Build Volume  | Laser |
|-------------------|---------------|-------|
| WISDREAM-BGSM100S | 100x100x100mm | 1     |
| WISDREAM-BGSM150  | 150x150x140mm | 1     |
| WISDREAM-BGSM250  | 250x280x300mm | 2     |
| WISDREAM-BGSM500  | 500x500x480mm | 4     |

More print sizes and requirements can be customized.

Contact us for more details.