

AUTO BIO2000

Multi Channel Biophar-Maceutical 3D Printer AUTO BIO2000

Shenzhen Soongon Technology Co., Ltd.
Shenzhen Yuanyi Intelligent Medical Technology Co., Ltd
Guangdong Medical 3D Printer and Personalized Medical Engineering
Technology Research Center
Joint team of China Pharmaceutical University, University of Macau,
and Guangdong Pharmaceutical University

About Us

Shenzhen Soongon Technology Co., Ltd.(hereinafter referred to as "Soongon") is a Chinese national high-tech enterprise established in 2012. With a registered capital of 5 million yuan and a comprehensive ISO9001 quality management system, it is a leading 3D printer innovative enterprise in China that integrates research and development, production, and sales.

Shenzhen Yuanyi Smart Pharmaceutical Technology Co., Ltd. (hereinafter referred to as "Yuanyi Smart") is established by the master's and doctoral teams of China Pharmaceutical University, University of Macau, and Guangdong Pharmaceutical University, and is invested by Soongon. We will focus on the pharmaceutical field and continue to promote the research and application of 3D printing in the pharmaceutical field in the future. Committed to developing high-end biopharmaceutical 3D printers.

The Guangdong Provincial Medical 3D Printer and Personalized Medical Engineering Technology Research Center was established in 2017, relying on Guangdong Pharmaceutical University, one of the three independent pharmaceutical universities in China, and jointly built with Shenzhen Soongon Technology Co., Ltd. Our mission is to research medical 3D printing technology and personalized medical applications, and to promote innovation and development of personalized precision medicine.

Soongon, Yuanyi Intelligence, Guangdong Provincial Medical 3D Printer and Personalized Medical Engineering Technology Research Center, a strong alliance, as of March 2023, have applied for 18 invention patents, 33 utility model patents, 7 appearance patents, 3 software copyrights, 10 domestic and foreign trademarks, and more than 70 intellectual property related certifications.

As a provider of high-end biopharmaceutical 3D printing equipment and solutions in China, we will continue to make efforts to promote precision medicine and promote the development of great health!



During the 2016 China Mass Entrepreneurship and Innovation Week, former Premier Li Keqiang visited our company's 3D printing equipment

History

In 2012, Shenzhen Soongon Technology Co., Ltd was established and officially entered the 3D printing industry.

2012

2018

n 2018, Soongon owned over 60 intellectual properby rights and related certifications. The sales network has covered countries and regions such as Japan, South Korea, India, the United States, the UK, and Sermany. 2013

In 2013, it became one of the 3D printer companies that successfully launched complete machine solutions and expanded into the 3D printing market in Hong Kong and Germany.

2019

in 2019, we successfully developed a desktop level biological 3D printer and jointly established the Guangdong Provincial Medical 3D Printer and Personalized Medical Engineering Technology Research Center with Guangdong Pharmaceutical Uniersity. 2014

la 2014, it was the first to launch a sheet metal structure 3D printer, and subsequently successfully developed foreign customers such as Japan, South Korea, Ukraine, further expanding its overseas sales network.

2020

n 2020, when the COVID-1s wept the world, Soongor urther developed P2 and other 3D printers adapted to he overseas market. In 2020 he sales realized a substantia growth in adversity. 2015

n 2015, it launched its independently developed Mixed color 3D printer for the first time, becoming the first manufacturer in China to obtain patents related to olended 3D printing technology.

2021

In 2021, the IDEX independent dual head I3model and large-sized complete machine model were launched and successfully combined with two in and one out mixed filament printing achieving one machine with multiple functions and one machine with hultiple functions.

2016

In 2016, while forming a series of products and improving the technical level, Soongon successfully developed the DAS metal 3D printer.

We have

Intelligent Pharmaceutical Technology Co, Ltd Yuanyi will focus on the pharmaceutical field, and our company will continue to promote the research and application of 3D printing in the pharmaceutical field.

2023

2017

erprise certification and also passed the ISO9001

2022

In 2022, Soongon launched the third-generation multi-channel biopharma ceutical 3D printer, contributing to the realization of personalized precision healthcare and the reform of medical care methods.

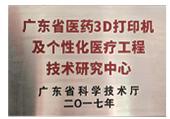
Qualification And Certification_



Co-Construction Unit Of Guangdong Pharmaceuticaluniversity Intelligent Medical Device Industry College



Guangdong Provincial 3D Printing Standardization Technical Committee Member Unit



Guangdong Medical 3D Printer And Personalized Medical Engineering Technology Research Center



Guangdong Pharmaceutical University Postgraduate Teaching
Practice Base



Director Unit of Additive Manufacturing Industry in Guangdong Province



Industry Excellence Brand Excellence Award



Guangdong Pharmaceutical University Postgraduate Teaching
Practice Base



Chinese National High-Tech Enterprise







Dozens Of Invention Patents, Software Copyrights, Utility Model Patents, Etc.



ISO9001 System Certification



CE,FCC,ROHS CertifiCcation

(Partners



Guangdong Pharmaceutical University



Shenzhen University



China Pharmaceutical University



Third Hospital of Wuhan City



Shanghai Institute of Ceramics of the Chinese Academy of Sciences (SICCAS)



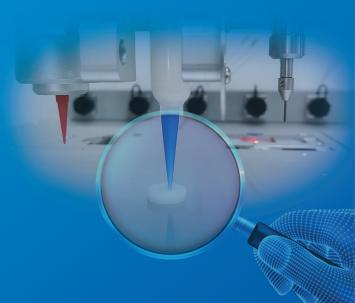
Guangdong Medical 3D Printer and Personalized Medical Engineering Technology Research Center



University of Macau

About Drug 3D Printing

Drug 3D printing is a new technology for producing drugs, which uses a 3D printer to stack and solidify drug materials layer by layer to produce specific doses and shapes of drugs. This technology can more accurately control the release rate and efficacy of drugs, increase absorption and utilization, and achieve better therapeutic effects. 3D printing of drugs can also produce specific drugs and be used for the development of new formulations based on the personalized needs of different patients, greatly improving the accuracy and effectiveness of treatment.



Advantages And Significance

The high flexibility, digitization, continuous production process, and precise dosage control of 3D printing for drugs are not available in the traditional pharmaceutical manufacturing industry. Compared to the traditional pharmaceutical industry, drug 3D printing can better control the drug release cycle, release rate, and even release position by selecting materials, designing the appearance of drug models, and adjusting the internal structure to meet the medication needs of patients in terms of age, weight, organ function, and disease severity. In small-scale drug manufacturing and new dosage form research and development, the production process of drug 3D printing is simple The smaller equipment and venue required, high flexibility, and digital continuous production process, as well as precise dosage control, make personalized and precise medication possible.

Personalized Appearance

Personalize the appearance (size, shape, etc.) based on factors such as personality, hobbies, gender, age, etc.

Personalized Dose

Personalize drug dosage based on factors such as symptom severity, weight, age, gender, and drug tolerance. Programmed Release Tablets

Programmed release formulations can be designed according to the patient's medication needs to achieve timed administration. Personalized Structure

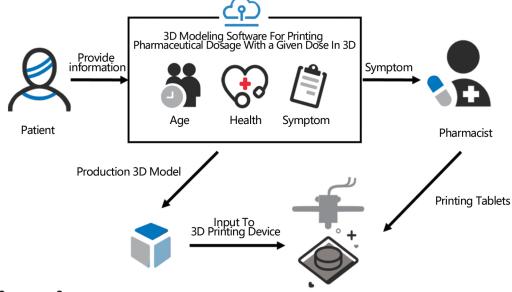
Personalized structural design is carried out based on factors such as etiology, location, and degree of symptoms, in order to achieve drug positioning and speed control.

Personalized Formulations

Customize drug formulations based on factors such as etiology, location, symptoms, complications, physical condition, genetic inheritance, etc.

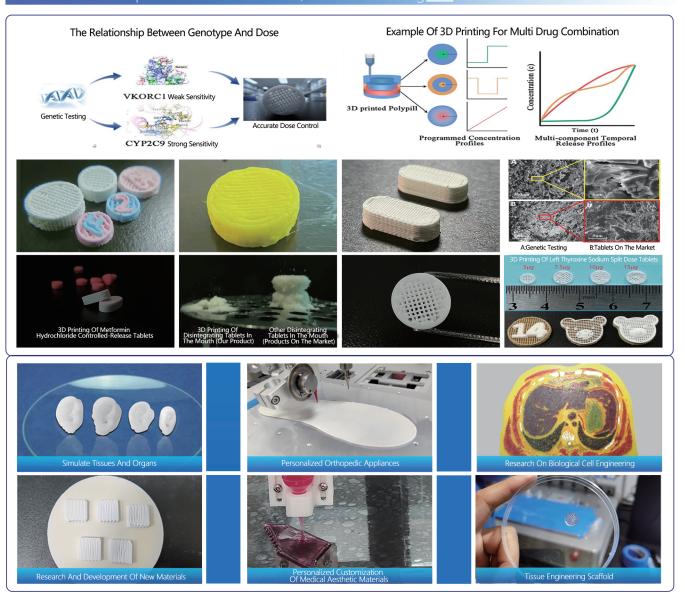
Precision Medication Process

3D Printing Personalized And Precise Medication Process With Different Dosages



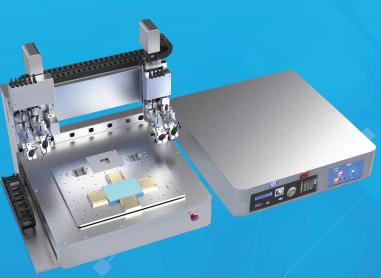
Application

Research And Development Of New Formulations/Personalized Dosing



About Auto Bio2000

AutoBIO-2000 is a domestic multi-channel biopharmaceutical 3D printing device that adopts ink direct writing technology and can support pharmaceutical materials such as slurry, liquid, suspension, melt, and various printing nozzles and functional modules. Through the combination of different materials and different modules, dozens of different printing process modes can be modulated, covering most biological and drug 3D printing application scenarios, such as drug dosage printing, drug new model research and development, biological hydrogel beauty research and development, bionic tissue organs, tissue engineering scaffolds, cell engineering cultivation and research.



\langle Function



















Supporting Materials

Drug Formula

Spironolactone, Hydrochlorothiazide, Captopril, Warfarin Sodium, Levothyroxine Sodium, Mercaptopurine, Aminophylline, Digoxin, Sildenafil, Phenobarbital, Etc

Medicinal Materials

Mannose, Povidone, Hydroxypropyl Methyl Cellulose, Ethyl Cellulose, Corn Starch, Cross-Linked Carboxymethyl Cellulose Sodium And Other Medicinal Excipients

Biomaterials

Matrix Glue, Gelatin, Silk Fibroin, Polyethylene Glycol, Polyvinyl Alcohol, Polycaprolactone, Polylactic Acid, Polyurethane, Gelled Adhesive, Chitosan, Etc







Medical 3D Printing Management System_

- The specialized management system for medical 3D printing integrates three modes: pharmacist mode, engineer mode, and supervision mode, which are segmented and managed according to different application scenarios, making the operation more convenient and effective;
- Multilayer permission settings, local encryption of data, and traceability of operations to ensure the security of software operations;
- Multi scene and multi platform functions, supporting switching applications of different printing platforms such as glass plates, petri dishes, cellophane, etc;
- With independent intellectual property rights and modular high scalability, we can provide customers with personalized software customization services.

Different Modes

There are three modes: pharmacist mode, engineer mode, and supervision mode, which are segmented and managed for different application scenarios.



Easy And Fast Printing

Implement simple and fast printing in pharmacist mode based on permissions and scenarios.



Joint Printing

Independent multi-channel can achieve single drug printing, multi drug compound linkage printing, single drug dual head parallel printing, multi drug dual head parallel printing, etc.



Real Time Adjustment

Real time adjustment, supporting real-time parameter adjustment, and able to respond to the complex needs of the printing process in real-time



More Services

Intellectual Property Tutoring: Providing tutoring in areas such as invention patents, software copyrights, utility model patents, team standards, and papers;

Prescription Database: Provide commonly used drug formula databases; Modeling Services:

Provide timely modeling services for users during their use, reducing their workload;

Function Customization: Tailor functions to meet the special needs of users.

(Parameter

Equipment Size	Host Size≥670mm*720mm*610mm; Handling Size≥625mm*760mm*155mm
Equipment Weight	≥70kg
Display	7.0 Inch Full Color Touch Screen (Supports Multiple Languages)
Scope of Work	Single Head Mode Or Multi Material Linkage Mode≥300mm*200mm*100mm,Copy Mode Or Mirror Mode≥150mm*200mm*100mm
Print Layer Height	0.1-0.4mm
Print Head Aperture	100-400μm Or Greater, Maximum Wire Diameter ≤ 100μm
Supporting Materials	Slurry, Liquid, Suspension, Melt (Solution, Suspension, Slurry Or Melt Composed Of Silica Gel, Hydrogel, Gelatin, Hydroxyapatite, Drug Cell Suspension, Liquid, Etc.)
Printing Temperature Of Nozzle	Normal Temperature, Low Temperature, High Temperature
Power	Pneumatic Pump, Working Pressure ≤ 0.8Mpa
Weight Positioning Accuracy	≤±10µm
File Type	Stl, Gcode, Jpg, Etc
Operating Software	Cura, Medical 3D Printing Management System
Operating System	Windows/Linux/Mac
Power Input (AC)	100V-240V;50-60Hz