



## Wisdomshow WDS-620 Triple-Zone Heating BGA Rework Station with HD Optical Alignment and PLC Control

### Our Product Introduction

#### Basic Information

- Place of Origin: Guangdong, China
- Brand Name: WDS-620 bga rework station
- Minimum Order Quantity: 1
- Price: CN¥20,622.80



#### Product Specification

- Max Input Power: 5300W
- Voltage: 110V/220V
- Dimensions: L650\*W630\*H850mm
- Weight: 55kg
- PCB Size: Max450\*390mm, Min10\*10mm
- BGA Chips: Max80\*80mm, Min1\*1mm
- Temperature Control:  $\pm 3$
- Alignment Precision:  $\pm 0.01$ mm
- CCD Camera: 5 Million Pixels
- LCD Monitor: 15-inch HD
- Heating Zones: Triple-zone
- Control Interface: MCGS Touch Screen
- Repair Success Rate: 99.99%
- Material: Metal
- Operation Mode: Automatic & Manual



#### More Images



### Product Description

#### Wisdomshow WDS-620 Triple-Zone Optical Alignment BGA Rework Station

Our WDS-620 BGA Rework Station is engineered for precision replacement and repair of BGA chips in laptops, mobile phones, gaming consoles (Xbox 360, PS3), and various consumer electronics. This industrial-grade solution is ideal for repair shops and electronic manufacturing facilities requiring high-precision rework operations and reliable after-sales service.





## Key Features

### BGA Rework Station Model: WDS-620

Automatic & Manual operation system

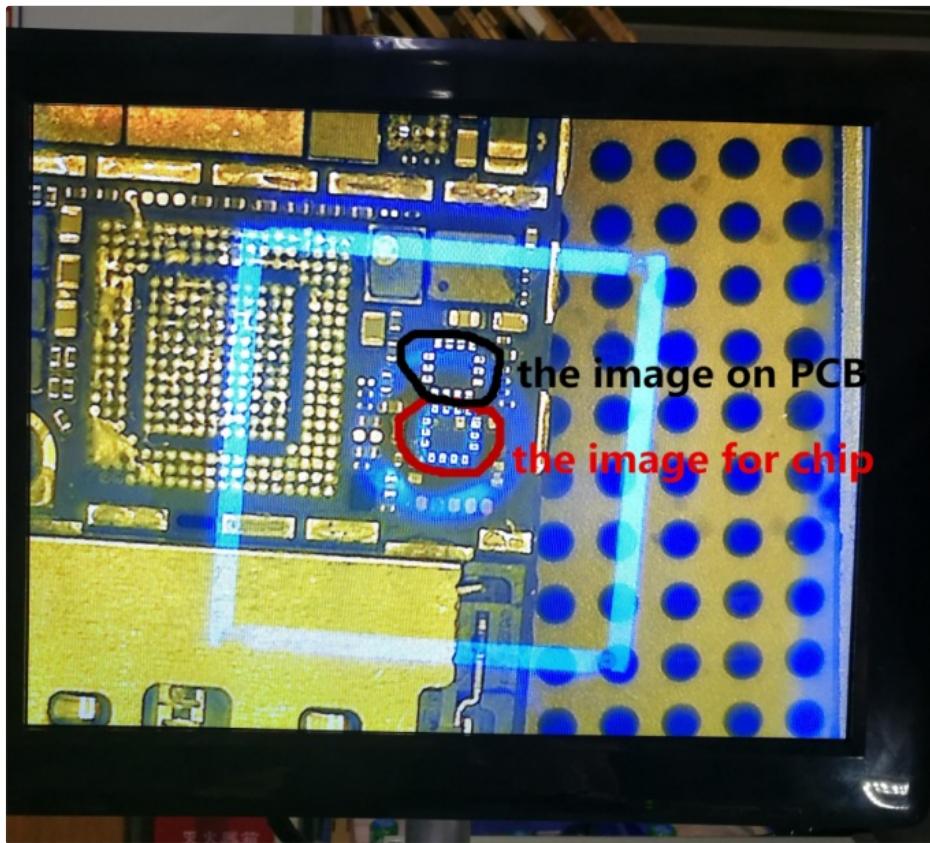
5 million pixel CCD camera optical alignment system with  $\pm 0.01\text{mm}$  precision

MCGS touch screen control interface

Integrated laser positioning system

99.99% repair success rate





### Precision Optical Alignment System

Features high-definition adjustable CCD color optical alignment with beam split, amplification, reduction, fine adjustment, and auto-focus capabilities. Includes automatic color aberration resolution, brightness adjustment, and contrast control. Equipped with 15" high-definition LCD monitor for optimal visibility.



### Multi-Functional Operation System

1. High-definition touch human-machine interface with integrated upper heating head and mounting head design. Multiple titanium alloy BGA nozzles available with 360-degree rotation for easy installation and replacement.
2. X, Y, and R angle micrometer fine-tuning provides accuracy positioning with precision reaching  $\pm 0.01\text{mm}$ .



## Advanced Safety Protection

Integrated alarm system automatically signals completion of BGA welding. Dual over-temperature protection with automatic circuit power-off during temperature abuse. Temperature parameters feature password protection to prevent unauthorized modifications.

## BGA Repair Process

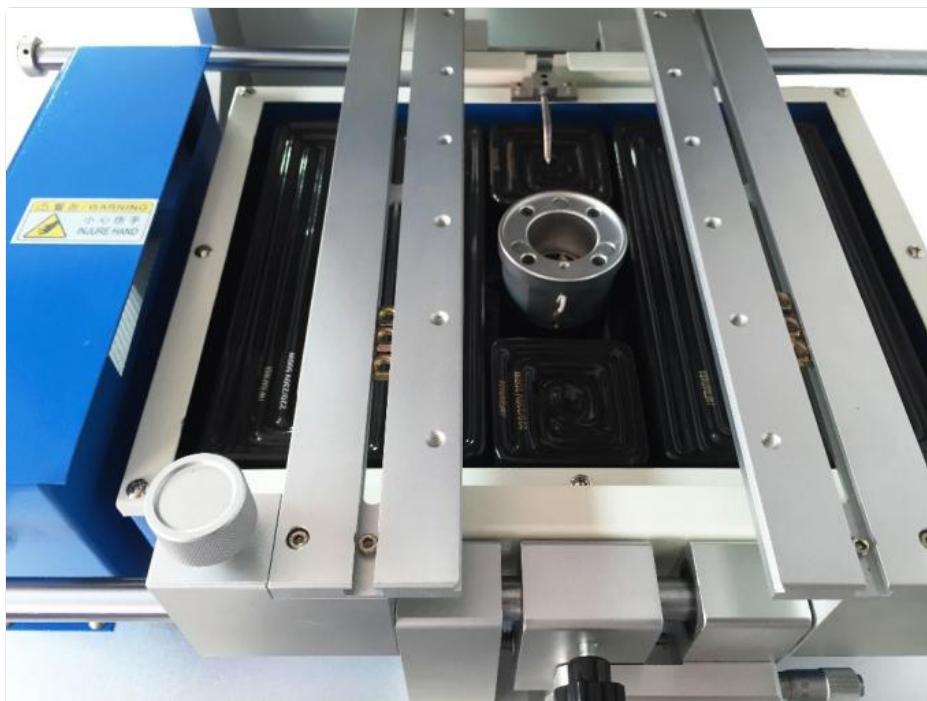
### How to Separate BGA Chip from Motherboard

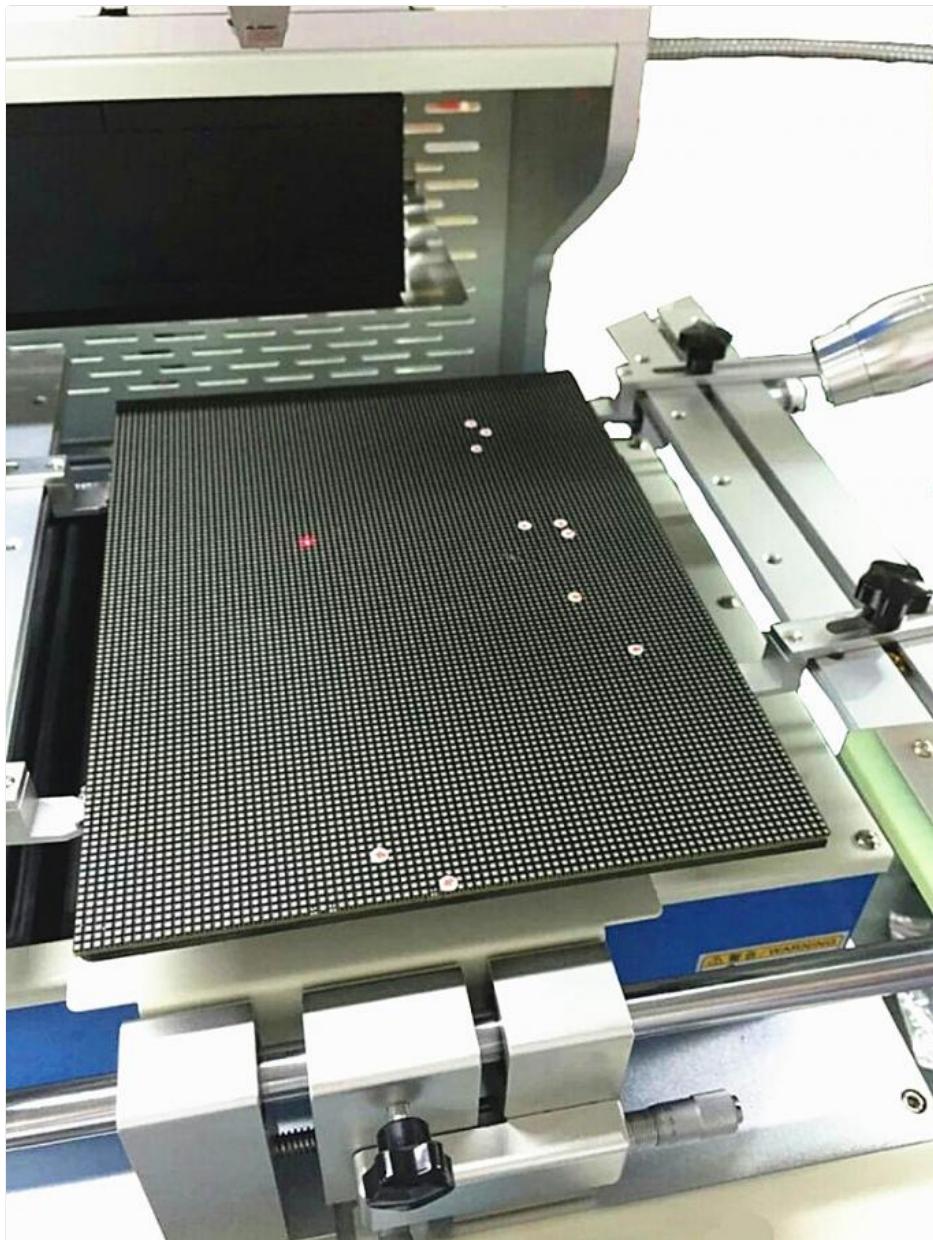
- Separate BGA chip from motherboard (Desoldering)
- Clean pad surface
- Reball or replace with new BGA chip
- Alignment/Positioning using experience, silk frame, or optical camera
- Install new BGA chip (Soldering)

## Product Parameters

The Total Power	5200W
Upper Heating Power Supply	1200W
Lower Heating Power Supply	1200W
Lower IR Heating Power Supply	2700W ( 1200W controlled )
Power Supply	(Single Phase) AC 220V±10 50Hz
Positioning Method	V-shaped slot, PCB bracket can be adjusted in any X and Y direction, laser positioning light for fast positioning.
Temperature Control	High-precision K-type thermocouple (Ksensor) closed-loop control (Closed Loop), independent upper and lower temperature measurement with a temperature accuracy of up to ±2degrees
Electrical Appliance Selection	Highly sensitive touch screen + temperature control module + PLC + stepper driver
Maximum PCB Size	470×380mm
Minimum PCB Size	10×10mm
Number of temperature measuring interfaces	1个
Chip magnification	2-32 times
The PCB Thickness	0.3-5mm
Apply Chip Size	1*1mm-70*70mm
Minimum chip spacing	0.15mm
Maximum load for mounting	300G
Mounting accuracy	±0.01mm
Overall Dimensions	L605×W655×H710mm
Machine Weight	Net weight 55kg

### Detailed Product Images







#### Top heater(1200w)

1. Air outlet design ensure focus heating,effective to increase success rate;
- 2.Top air reflow is adjustable,suit for any chips;
- 3.Nozzle equipped different size for different chip



#### Down heater(1200w):

- 1.Focus heating on desoldering chip;
- 2.Height is adjustable;
- 3.Heat-detector:Can't move,it is used for test temperature
- 4.This screw can adjust to support PCB



#### Large IR heating Panel

- 1.Preheating PCB,make heating more evenly;
- 2.Protect the PCB avoid deformation during working;
- 3.Infrared heating is more easily absorbed by PCB,increase repair success rate

#### Heater adjust

Adjust distance PCB and bottom nozzle,suitable distance is 1-2mm



#### Monitor

- 1.1080p HD monitor
- 2.In the picture,the blue point is for soldering IC,yellow point is for PCB

#### R axis

It is for chip angle adjust,to get precision alignment

#### HD Camera

- 1.High precision CCD alignment system;
- 2.5 million pixel;
- 3.Mounting accuracy can reach  $\pm 0.01\text{mm}$

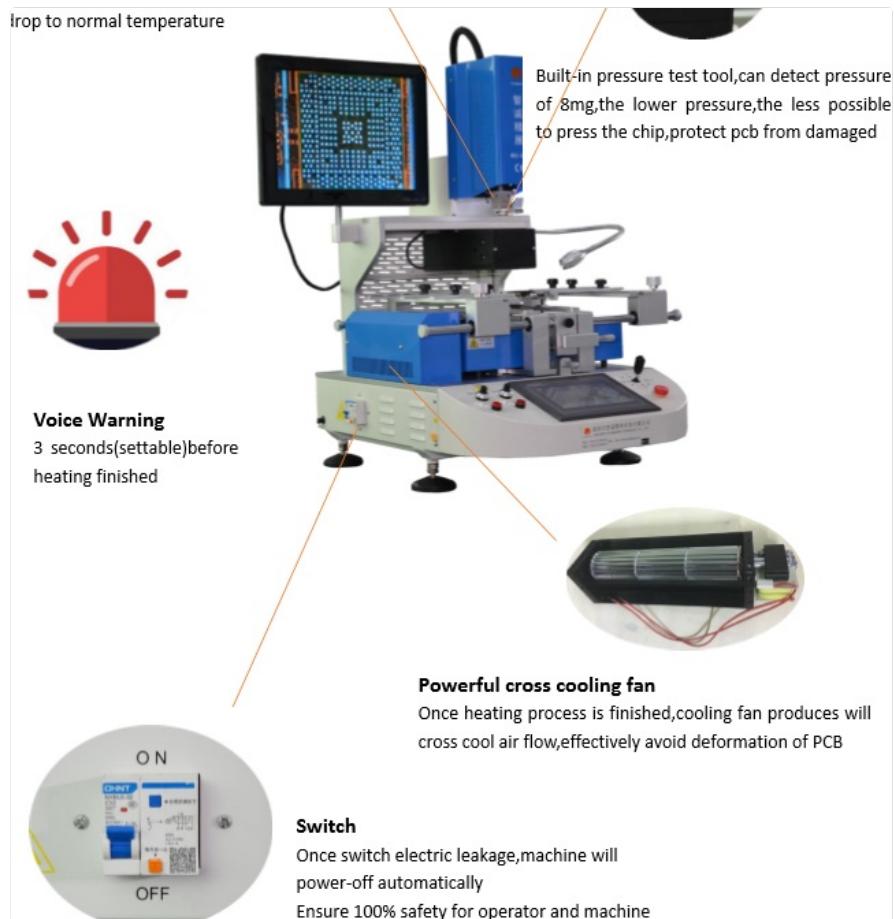
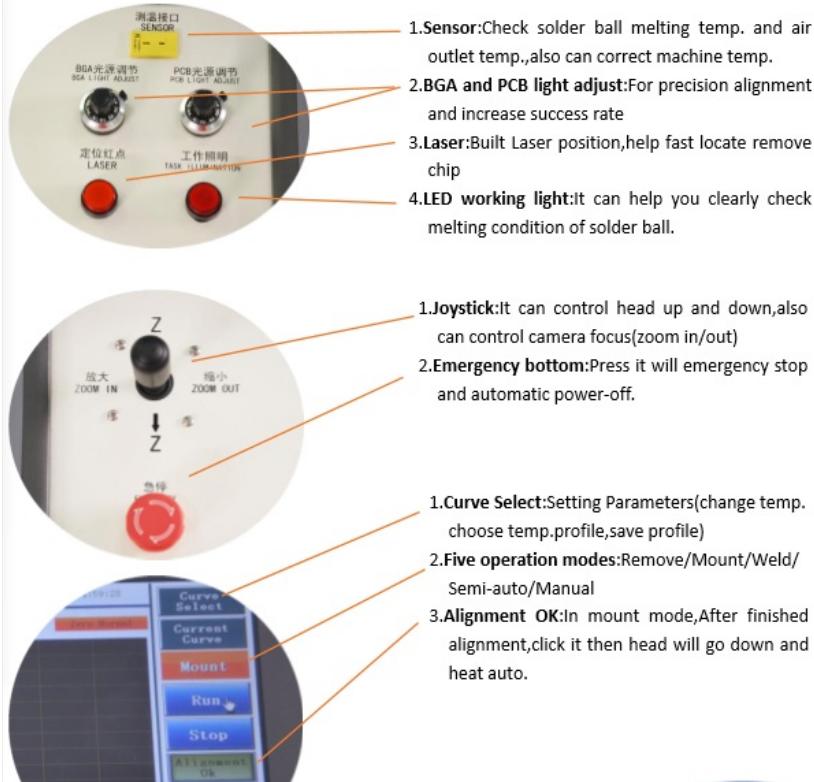
#### Light Button

1. Adjust camera lightness of BGA and PCB;
2. Increase monitor clearness,make alignment easier

- 1.Adjust PCB left&right,Front&back;
- 2.Ensure every bga and pcb soldering point matching;

## Operation System

- ◆ Adopting high sensitive HD MCGS touch screen;
- ◆ It can automatic Remove/Mount/Weld chip.



## Packing & Shipping

Standard export wooden cases

Delivery within 2 workdays after payment confirmation

Shipping via TNT, DHL, FEDEX, air, or sea freight

Loading port: Shenzhen or Hong Kong



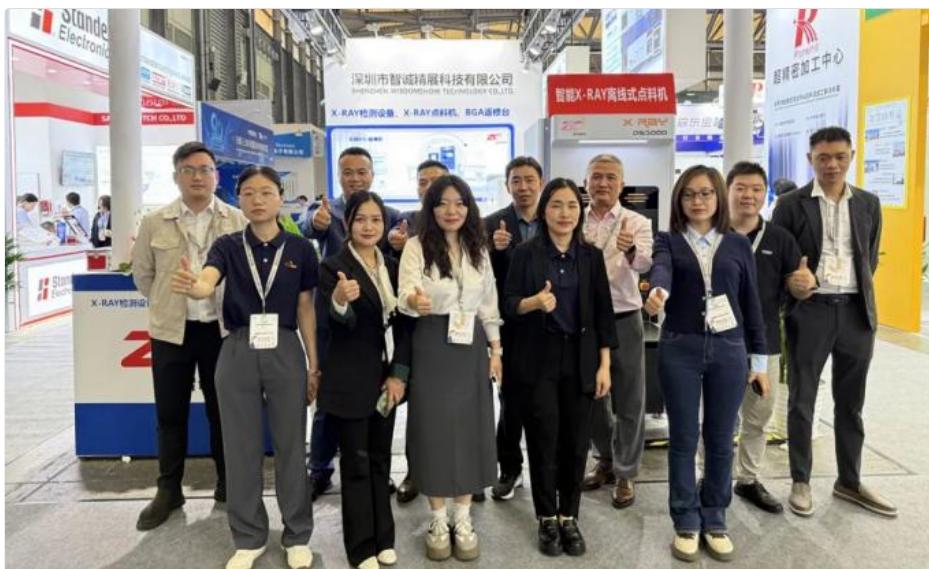


## Company Information

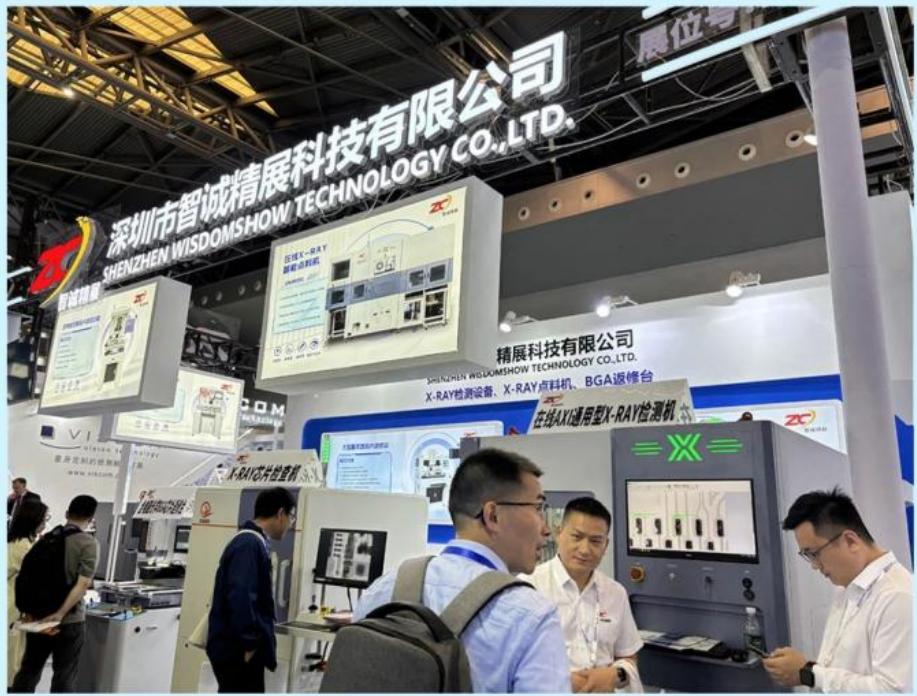
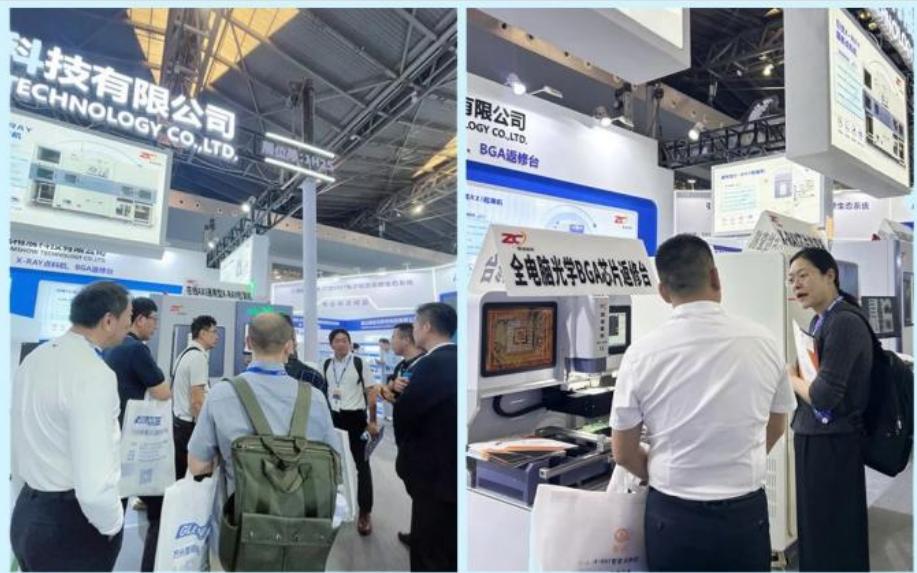
Shenzhen Wisdomshow Technology Co., Ltd. was founded in 2011 by experienced engineers and sales professionals. Specializing in BGA rework stations and X-RAY inspection equipment, the company has expanded through continuous R&D and innovation. With ISO9001 and CE certifications, multiple patents, and strong customization capabilities, Wisdomshow serves clients across Asia, Europe, and North America in server motherboard repair, LED assembly, and smartphone production.











## Our Advantages and Service

**Contact:** 24-hour technical support via email or phone

**Warranty:** One year free warranty (other relative costs borne by buyer)

**Technology Support:** Demo operation videos for training; On-site demonstration available

**Service:** Comprehensive English user manual; Professional after-sales service

**Price:** Competitive pricing with significant discounts for agencies



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This automated notification from the CeSub Submission Process contains general information about the aforementioned submission:

Accession Number: **2432788-000**

Date Loaded: **Sep 30, 2024**

Document Date: **Sep 27, 2024**

Establishment Name: **SHENZHEN WISDOMSHOW TECHNOLOGY CO.,LTD**

Purpose: **This submission is a(n) Annual Report. These Cabinet X-Ray Systems, Non-Medical cover the period from July 01, 2023 to June 30, 2024.**

Submitter: **Wallace Xu**

Email: **wallace.xu@fdace.cn**

Reporting Official: **Ziwen Li**

Email: **dwd@wdsbga.cn**

If you meet all other applicable FDA requirements, you may market the product(s) reported. Please be aware that additional electronic product radiation control or medical device regulations may apply to your product, such as:

21 CFR 1002.11, requiring report supplements under certain circumstances following the same reporting forms as used for product reports on your products

21 CFR 1002.13, requiring annual reports to be submitted each year by September 1 using the appropriate reporting form for annual reports

21 CFR 1010 - 1050, requiring certification to FDA radiation safety performance standards

21 CFR 807, requiring manufacturer registration and device listing, and

21 CFR 807, 812 and 814, requiring medical device clearance or approval

For further information see:

Radiological Health web site - <http://www.fda.gov/Radiation-EmittingProducts/default.htm>

FDA Electronic Submissions Gateway website -  
<http://www.fda.gov/ForIndustry/ElectronicSubmissionsGateway/default.htm>

If you have any questions, please contact the Director of the Division of Radiological Health, or the branch chief of your respective product area, as listed on the CDRH Management Directory, under the Office of In Vitro Diagnostics and Radiological Health, Division of Radiological Health.

<http://www.fda.gov/AboutFDA/CentersOffices/OfficeofMedicalProductsandTobacco/CDRH/CDRHOFFICES/ucm127854.htm>

Please include a primary (and optional secondary) contact email address in all submissions (and/or cover letters) to facilitate electronic correspondence.

Sincerely yours,

Division of Radiological Health

Office of In Vitro Diagnostics and Radiological Health  
Center for Devices and Radiological Health



证书号 第 16583817 号



## 实用新型专利证书

实用新型名称: X-Ray 检测平板自动旋转机构

发明人: 孙尚坤

专利号: ZL 2021 2 0400163.4

专利申请日: 2021 年 02 月 23 日

专利权人: 深圳市智诚精展科技有限公司

地址: 518000 广东省深圳市宝安区沙井街道西环路蚝四西部工业区 6 号 7 栋 202

授权公告日: 2022 年 05 月 24 日 授权公告号: CN 216594856 U

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其他事项参见续页

证书号 第 13058639 号



## 实用新型专利证书

实用新型名称：一种智能 X 射线的三维透视检测设备

发明人：陈近刚

专利号：ZL 2020 2 0970702.3

专利申请日：2020 年 06 月 01 日

专利权人：深圳市智诚精展科技有限公司

地址：518000 广东省深圳市宝安区沙井街道西环路蚝四西部工业区 6 号 7 栋 202

授权公告日：2021 年 04 月 27 日 授权公告号：CN 213068684 U

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其他事项参见续页

### Customer Feedback

"Hi mate, your best price and high purity product is so competitive in my country, this let me make much profit, my customers are really like it. Cooperate with you is so wonderful! Thank you!" - Richard, Turkey

"I have received my products, your packing is do discreet and perfect, it really amazed me. I will order more from you as soon as possible. Thanks a lot." - Robert, Australia

"I have cooperated with you for many times, your product quality is so great, that is why I still buy the products from you. Thank you." - Corentin, Brazil







Hello dear, how are you ? about one years passed, if you remember me ? thanks for the machine WDS-620 supplier !

You what's new

Are you still working today ?

Yes

May I know how about the use of WDS-620 ? Is it a good helper for your company ?

We used it its working fine

Good , glad to hear that . At end of last year, we have many works since we got machine 😊

How about the WDS-4000 bga machine ?

Abdul, More customer. And I am working in my factory. What then you could buy a new one 😊

How about the WDS-4000 bga machine ?

WDS-4000 is great, I got already the money I spent for it 😊

C'est une excellente machine, j'ai lu qu'on pouvait mettre une micro SD avec des données, avez-vous une avec des données pour des pc et smartphones Apple ?

How about the WDS-700 bga machine ?

Very well and you Thank you for the machine I am doing very good works.

Good, glad to hear that and thanks for your support. We





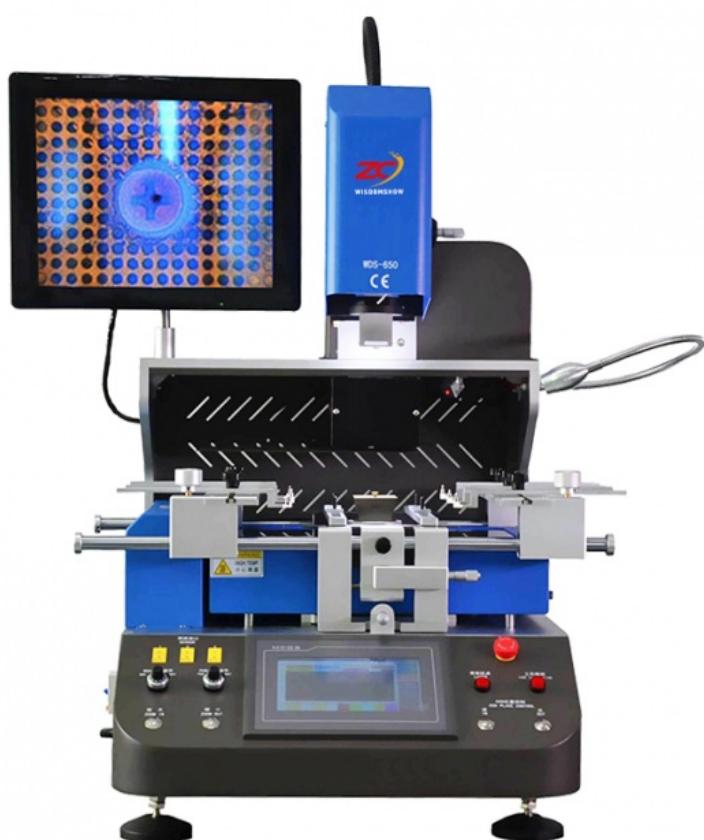
## Related Products



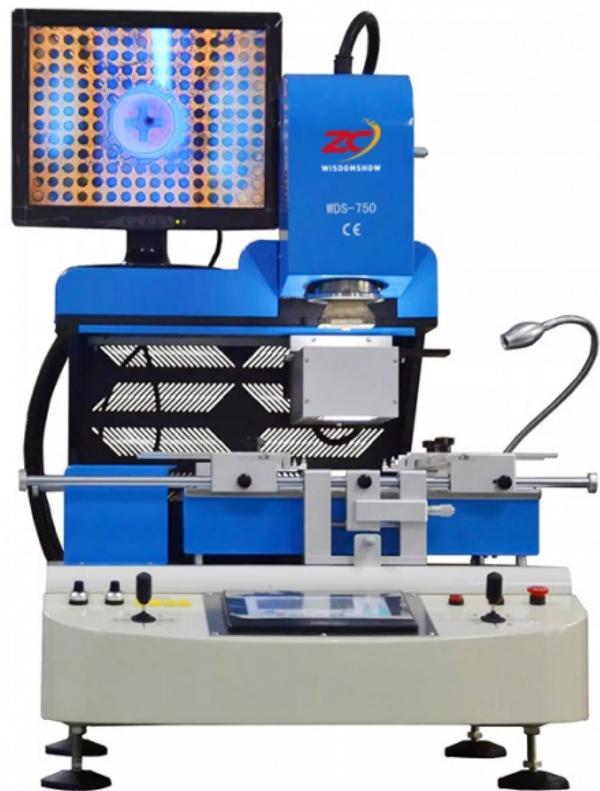
WDS-S7



WDS-620



WDS-650



WDS-750



WDS-800A



WDS-1250

### Order Now

For any questions, please send an INQUIRY or CHAT with us. We will be glad to assist you!

Place your order freely today! Contact us for the best pricing and professional support.



Shenzhen Wisdomshow Technology Co.,ltd



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bgaxrayoutline.com

No.6,Haosi Western Industry,Shangjing Town,Bao'an District,Shenzhen,China