



Shenzhen Company

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Hongkong Company

Seamark Hongkong Limited

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Ver: ZM-CY01-A1(202506)



Industrial CT X-Ray Inspection Equipment
Automated Optical Inspection Equipment
X-Ray Counting Equipment
Intelligent BGA Rework Equipment

One-stop Solution

SHENZHEN ZHUOMAO TECHNOLOGY CO., LTD.
SEAMARK HONGKONG LIMITED

卓尔不凡 耕深业茂

Seamark

ZM

X-Ray Counting Machine/X-Ray Inspection Equipment
Multifunctional BGA Rework Equipment
Lithium Battery Inspection Equipment
3D/CT Inspection Equipment
One-stop Service



Company Profile

Shenzhen Zhuomao Technology Co., Ltd. (also known as "Seamark") was established in 2005 and is a national high-tech enterprise that integrates research and development, production, and sales. It is also a national key "little giant" enterprise specializing in precision, innovation, and novelty. The company has been deeply involved in the industry for more than 20 years and has been committed to providing advanced Industrial CT, X-Ray Inspection Equipment, AOI/SPI, X-Ray Counting Machine, and Intelligent BGA Rework Equipment for industries such as electronic manufacturing, integrated circuits, semiconductors, new energy batteries, and industrial castings.

The company adheres to independent innovation of core technologies, has a professional R&D team, has established a postdoctoral innovation practice base, and has carried out industry university research technology cooperation with research institutions such as Tsinghua University, the Institute of Advanced Technology of the Chinese Academy of Sciences, and Shenzhen University. Currently, it has obtained more than 300 patents and qualification certificates, undertaken the research and development of multiple national key special projects, and has been approved as the Engineering Technology Research Center for Industrial X-ray Intelligent Inspection Equipment in Guangdong Province.

Zhuomao Technology is headquartered in Shenzhen and has established branches and offices in Beijing, Suzhou, Xiangyang, Tianjin, Chongqing, Xi'an, Taiwan, Bangkok and other places, with a complete after-sales service system. Our products cover more than 100 countries and regions worldwide, and have become the preferred trusted brand for over 100,000 users worldwide!



Milestones

Cooperative Partner

2025

- In 2025 Zhuomao Technology celebrates its 20th anniversary
- In 2025 won the Guangdong Industrial X-ray Intelligent Inspection Equipment Engineering Technology Research Center

2024

- In November 2024, a joint laboratory was established with the Shenzhen Advanced Institute of the Chinese Academy of Sciences
- Pass the mid-term acceptance and results release of the national key R&D project in November 2024
- The East China (Suzhou) Exhibition Center will be officially opened in July 2024
- In June 2024, the company will be awarded the title of "Little Giant" with continued financial support for specialized, sophisticated and innovative enterprises
- In March 2023, the company will expand its scale and move from Fuhai Huaide Cuihai Industrial Park to Buildings 10 and 11 of Fuyong Longwangmiao Industrial Park.
- In February 2023, it was awarded the Postdoctoral Innovation and Practice Base by the Shenzhen Human Resources and Social Security Bureau

2022

- In 2022, awarded as a national-level "Little Giant" enterprise by the Ministry of Industry and Information Technology
- In December 2021, won the "Shenzhen Advanced Manufacturing Intelligent Equipment Field Pioneering Bull Award" issued by Shenzhen Electronic Equipment Industry Association for the Socialist Pilot Demonstration Zone
- In December 2021, the industrial CT/3D X-ray inspection system was awarded the "China SMT Innovation Achievement Award" by the Guangdong Institute of Electronics

2020

- In January 2020, Zhuomao was awarded the "Shenzhen Equipment Industry-Leading Enterprise in SMT Segmentation" by Shenzhen Electronic Equipment Industry Association
- In January 2020, the independently developed X-ray Inline Counting Machine was awarded the "China SMT Innovation Achievement Award" by the Guangdong Electronics Society

2019

- In 2019 officially became a qualified supplier of Foxconn
- In 2019 officially became a qualified supplier of Huawei
- In July 2019 Strategic cooperation with Henan University of Science and Technology to create a post-doctoral workstation
- In February 2019, Hubei Zhuomao Intelligent Technology Co., Ltd. was established and formally settled in Hubei Dongjin New District Intelligent Equipment High-tech Industrial Park and put into production
- In January 2019 passed the intellectual property management system certification

2018

- In 2018 officially became a qualified supplier of ZTE
- In December 2018, Mr. Wen Quan, the general manager of Zhuomao, was awarded the "Leading Talent" Award for the 40th Anniversary of the Reform and Opening-up by the Shenzhen Electronic Equipment Industry Association
- In December 2018, the 3D X-ray Inspection Equipment was awarded the "China SMT Innovation Achievement Award" by the Guangdong Electronics Society
- In September 2018, the Micro-focus X-ray Inspection Equipment was granted the exemption management certification by Guangdong Environmental Protection Department
- In October 2017, Zhuomao won the "2017 Guangdong's most competitive enterprise" award

2016

- In October 2016, the laser screen repair equipment won the key support project of "SME Technology Innovation" by Baoan Science and Technology Bureau
- In December 2015, Zhuomao was awarded the title of "2015 Shenzhen Enterprise Cultural Construction Excellent Unit" by the Shenzhen Enterprise Federation
- In November 2015, the general manager Wen Quan was awarded the title of "Top Ten Outstanding Young Persons in Xixiang, Bao'an District"
- In September 2015, the whole relocation from Xixiang Sanwei Donghua Industrial Park to the 10th building of Fuyong Huaide Cuihai Industrial Park, and held the "10 Anniversary Celebration" event
- In June 2015, Zhuomao won the "2014 Guangdong Integrity Demonstration Enterprise" certificate issued by the Guangdong Federation of Enterprises

2014

- In October 2014, Zhuomao won the title of "2014 Deloitte China-Shenzhen High-Tech, High-Growth Top 20 Enterprises"
- In August 2014, it won the "2014 Electronic Equipment Industry Design Red Sail Award" issued by the China Electronic Equipment Industry Expo Organizing Committee

■ In August 2013, the general manager Wen Quan was awarded the title of "Outstanding Entrepreneur of China Electronics Manufacturing Industry" by the Guangdong Electronics Society

■ In August 2013, Zhuomao won the "China Electronic Equipment Most Innovative Ability Award" issued by the China Electronic Equipment Industry Expo Organizing Committee

■ In May 2013, it obtained the "Integrity AAA" certification from the China SME Association and the Ministry of Commerce

■ In January 2013, Zhuomao became a qualified supplier of "Epson Technology (Shenzhen) Co., Ltd."

■ In January 2013, the first fully automatic BGA Reballing machine in China was born and successfully applied for invention patent and obtained authorization

■ In August 2012, Suzhou Zhuomao Optoelectronics Technology Co., Ltd. was established

■ In December 2011, Zhuomao won the title of the ninth "Most Potential Shenzhen Famous Brand Enterprise"

■ In October 2011, Zhuomao obtained the certificate of "National High-tech Enterprise"

■ In March 2011, Zhuomao became a qualified supplier of "Chongqing Space Rocket (Bashan Instrument)"

2013

■ In July 2010, Zhuomao registered the trademark "Seamark ZM", and officially became a strategic partner with DIC Corporation of Japan

■ In March 2010, it was all selected as a qualified supplier by well-known domestic brands such as Skyworth, Changhong, and Hisense

■ In January 2010, it was awarded the title of "2009 Civilized and Honest Business Household" by the Shenzhen Industrial and Commercial Bureau

■ In Dec. 2009, Zhuomao was recognized as "Shenzhen Dual Software Enterprise"

■ In November 2009, Zhuomao passed ISO9001: 2008 quality management system certification

■ In October 2009, Zhuomao Technology (Hong Kong) Co., Ltd. was established

■ In July 2008, Zhuomao successfully passed the international CE certification

■ In March 2008, Zhuomao established a cooperative relationship with Shenzhen Graduate School of Tsinghua University

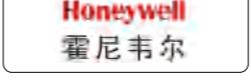
■ In December 2007, Zhuomao became the designated supplier of Taiwan Gigabyte Technology Rework Equipment

■ In April 2006, Zhuomao participated in Nepcon for the first time, and cooperated with well-known IT companies such as Lenovo, Tongfang, TCL, etc.

■ In March 2006, the first optical alignment rework station ZM-R680C entered the Tianjin market, Tianjin Daisuke Electronics Co., Ltd. (Korean-owned enterprise)

2005

■ In 2005, Shenzhen Zhuomao Technology Co., Ltd. was formally established



The ranking is in no particular order. Thank you for your support !

Honors & Qualifications

Honors



Qualifications

Trademark Registration



Software Copyright



Patent



System Certification



Corporate Philosophy



Vision

Build a leading enterprise in intelligent equipment with a century-long legacy

Mission

Innovate inspection technologies to empower the intelligent manufacturing industry

Market Culture
Creating all possibilities

Brand Culture
Perfection

Core Values

Customer First
Collaborative Innovation
Integrity and Win-Win
Pursuit of Excellence

Talent Culture
Using employees with moral integrity and ability

Management Culture
Focus on the strugglers

Strong sense of responsibility
Strong learning ability

《《《 Our Professionalism 》》》

Zhuoma Technology was established on May 20, 2005

Strong execution

Excellent professionalism



XB5200

Stacking Battery X-Ray Inspection Equipment

XB5200 stacking battery X-ray inspection equipment is suitable for the inspection of stacking (blade) process type batteries in the lithium battery industry, and conducts effective analysis of the extreme difference between the positive and negative poles of the product or the shape of the aluminum shell pole ear; it is equipped with highly compatible and fully functional measurement software, automatically measures and automatically judges the object being measured, and displays the judgment result interface, so that users can easily pick out defective products.

Product Features

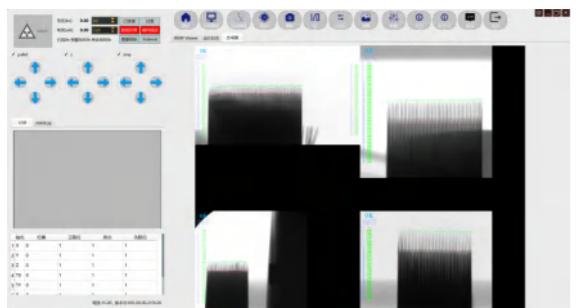
CNC Function: Memory programming, automatic recording of inspection movement path, accurate positioning, convenient small batch repeated inspection; built-in in-situ retest function, supports multiple image formats.

Safety and Environmental Protection: The equipment has safety interlocking and multiple protection functions, and any parts on the surface of the machine meet national safety radiation standards.

Simple Operation: The software interface is user-friendly, with one-click model change and troubleshooting, and configuration permission management function, which is easy to use and improves work efficiency.

Image and Test Data: The test images and test data of the battery are saved together and can be displayed together in the software interface for easy viewing and analysis.

Application Cases



Product Parameters

Model No.	XB5200	
X-Ray Tube	X-Ray Tube Type	Reflective sealed micro-focus X-ray source
	Tube Voltage	40-90KV/40-130KV
	Tube Current	10-200uA/10-300uA
	Maximum Output Power	8W-39W
	Micro Focus Size	5-15μm
Flat Panel Detector	Flat Panel Type	Amorphous Silicon Flat Panel Detector (Optional) Linear Array Detector TDI
	Pixel Matrix	1536x1536
	Field of View	130mm*130mm
	Resolution	5.8Lp/mm
	Image Frame Rate (1x1)	20fps
	AD Conversion Digits	16bits
Inspection Efficiency and Accuracy Parameters	Inspection Accuracy	15μm
	Repeat Test Accuracy	±30μm
Stage Parameters	Maximum Sample Size	600x300mm / 900x300mm
	Loading Weight	≤10Kg
Equipment Specifications	Input Power	220V 10A 50-60HZ
	Operation System	Industrial Computer Win10 64 bits
	International Radiation Safety Standard	≤1μSV/hr
	Dimensions	1600*1162*2000mm / 1910*1450*1900mm
	Net Weight	1600kg / 1800kg

XB7100

Winding Battery X-Ray Inspection Equipment



Product Parameters

Model No.	XB7100	
Equipment Specifications	Dimensions	5460mm*2600mm*2800mm
	Cycle Time	≥26 PPM or Above (2 Corners or 4 Corners)
	Yield Rate	≥99.5%
	Equipment Failure Rate (DT)	≤2%
	Overkill Rate	≤1%
	False Negative Rate	≤0%
	Mean Time Between Failures (MTBF)	≥8H
	Material Feeding Method	Logistic line feeding
	Radiation Safety Standard	≤1μSV/hr
	Receiver	Flat Panel Detector
X-Ray Tube	Exposure Time	≥0.7S
	Tube Voltage	Voltage:40-90KV/40-130KV
Inspection Efficiency and Accuracy Parameters	Tube Current	Current:10-200uA/10-300uA
	Inspection Accuracy	15μm
	Repeatability Accuracy	±30μm
Other Parameters	Changeover Time	For old products: ≤2 hours/person For new products: ≤4 hours/person
	Compatible Range	Height: 70-220mm Width: 80-260mm Thickness: 5-25mm (or Customized for All Models on the Market)
	Inspection Items	Corner Overhang Large Surface Wrinkles Inspection Extreme Needle Pulling

Equipment Function

- Automatic code scanning, MES interaction, data upload;
- Automatic loading, unloading, NG sorting (optional NG automatic reflow retest);
- Corner Overhang, folding, cracks, large foreign body wrinkles, and ear pin extraction.

Product Features

Fully automatic inspection: connect with upstream and downstream equipment, automatically detect and judge inline, and automatically sort out defective products; with built-in on-site retest function, and optional automatic reflow retest function.

Real-time monitoring: All equipment actions, signals, and hardware status are monitored in real time, which is convenient for product quality data analysis and safe production control.

Safety and environmental protection: The equipment has safety interlocking and multiple protection functions, and any parts on the surface of the machine meet national safety radiation standards.

Simple operation: The software interface is user-friendly, with one-click model change and troubleshooting, and configuration permission management functions, which is easy to use and improves work efficiency.

Image and test data: The test pictures and test data of the battery are saved together and can be displayed together in the software interface for easy viewing and analysis.

Adjustable Imaging Distance Range:

For Corner Overhang Inspection:
Distance from flat panel detector to battery surface: 150~350mm
Distance from X-ray tube exit to battery surface: 20~320mm

For Wrinkle Inspection:
Distance from the flat panel detector to the battery surface: 150~150mm
Distance from the X-ray tube exit to the battery surface: 150~350mm