



Shenzhen Company

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Hongkong Company

Seamark Hongkong Limited

As the products are constantly improved and
updated, this brochure is for reference only.

The company reserves the final interpretation right.

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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

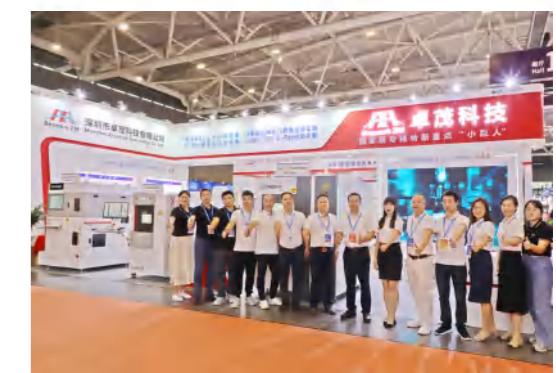


Company Profile

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

2013

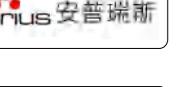
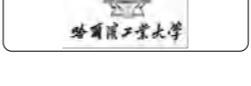
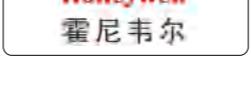
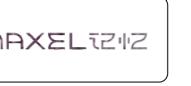
- In August 2013, Zhuomao won the "China Electronic Equipment Most Innovative Ability Award" issued by the China Electronic Equipment Industry Expo Organizing Committee
- In May 2013, it obtained the "Integrity AAA" certification from the China SME Association and the Ministry of Commerce
- In January 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

2010

- 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

2008

- 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)
- 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



XB8100

Cylindrical Battery X-Ray Inspection Equipment

XB8100 enables fully automatic inline inspection of various models of cylindrical batteries. It integrates with upstream and downstream logistics lines, allowing for efficient transfer of items for inspection. It automatically sorts out defective (NG) products and outputs acceptable (OK) products to the output logistics line, which then enters downstream equipment (optional automatic reflow for secondary retesting).

Device Functions

- Automatic loading and unloading integration, MES interaction, and data upload.
- Inspection of corner overhang, resistance value, conductivity, and other tests.
- Automatic reflow for retesting of NG products (optional).

Product Features

Fully Automatic Inspection: Connects with upstream and downstream equipment for inline automatic inspection and judgment. Defective products are automatically sorted out, and an automatic reflow function for re-inspection is available as an option.

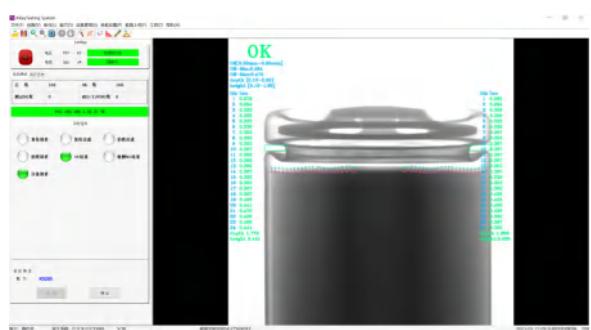
Real-time Monitoring: All actions, signals, and hardware statuses of the equipment are monitored in real-time, facilitating product quality data analysis and ensuring safety production management.

Safety and Environmental Protection: The equipment is equipped with safety interlocking and multiple protective functions. All components of the machine surface meet national safety radiation standards.

User-Friendly Operation: The software interface is intuitive with one-click model change and fault troubleshooting features. It also includes configuration permission management, making it easy to use and improving work efficiency.

Image and Inspection Data: Battery inspection images and inspection data are stored together and can be displayed within the software interface, making it convenient for viewing and analysis.

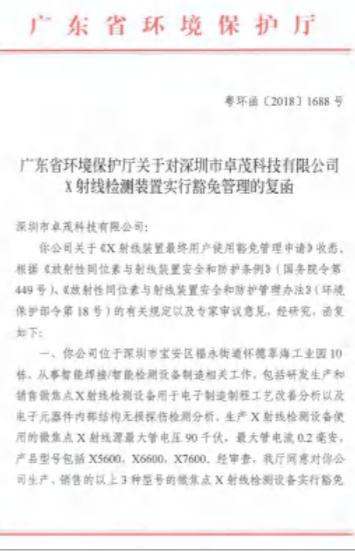
Application Case



Product Parameters

Model No.	XB8100	
X-Ray Tube	X-ray Tube Type	Reflection Sealed Micro-focus X-ray Source
	Tube Voltage	110KV
	Tube Current	455uA
	Maximum Output Power	50W
	Micro-focus Size	5-15μm
Flat Panel Detector	Detector Type	Flat Panel Detector
	Field of View	130mmx130mm
	Resolution	5.8Lp/mm
	AD Conversion Bits	16bits
Efficiency Parameters	Inspection Accuracy	15μm
	Repeatability Accuracy	±30μm
	Inspection Efficiency	≥90ppm
	False Positive Rate	≤1.5%
	False Negative Rate	0.0%
	Product Pass Rate	≥99.5%
Equipment Specifications	Input Power	3-phase 380V/50HZ, approx. 3000W
	Control System	Industrial Computer WIN10 64-bit
	International Radiation Safety Standard	≤1usv/hr
	Inspection Range	14450/18650/21700/26650/32700/4680
	Dimensions	L1300×W1660×H1900
	Net Weight	2500Kg
		4000KG

Radiation Safety



The X-Ray Inspection Equipment of Zhuoma Technology's SEAMARK brand, the radiation measurement is lower than national standard after third-party's inspections, and has obtained the national radiation safety license. At the same time, it was granted exemption management for X-ray Inspection equipment by Guangdong Environmental Protection Department. At the domestic and foreign customer sites, after customer inspection, they all meet local national standards (including customers in the United States, Canada, Germany, Japan, Taiwan China, etc.).



X-Ray Counting Machine Applications

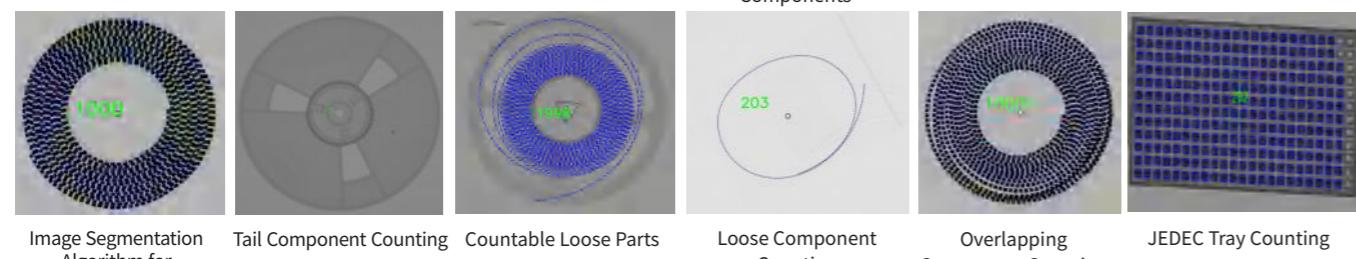
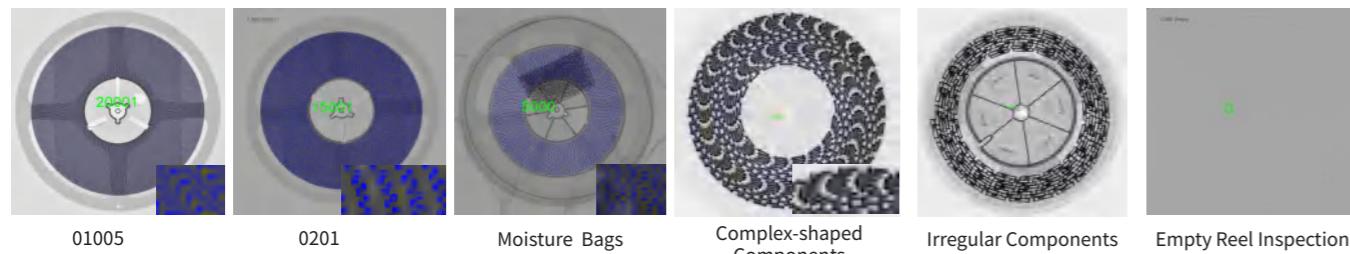
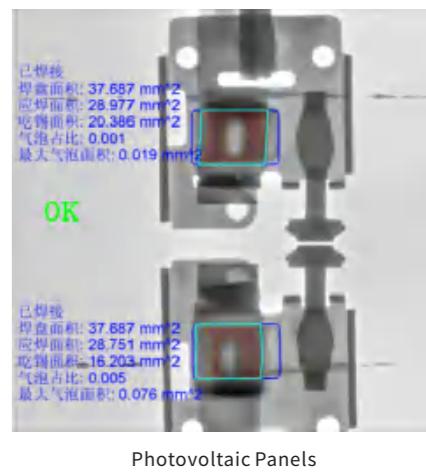
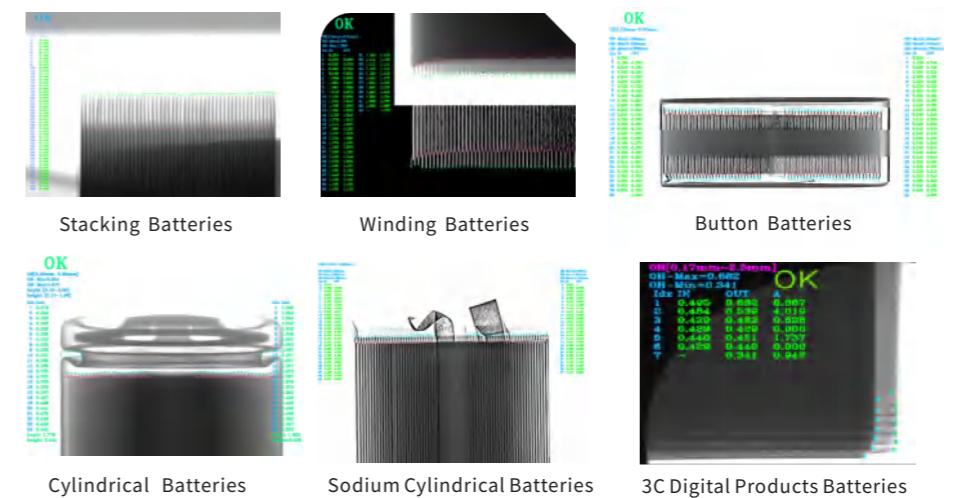
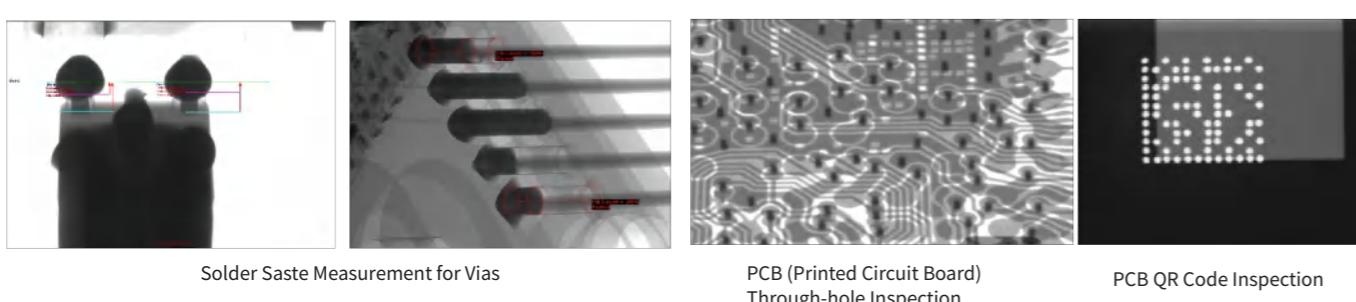
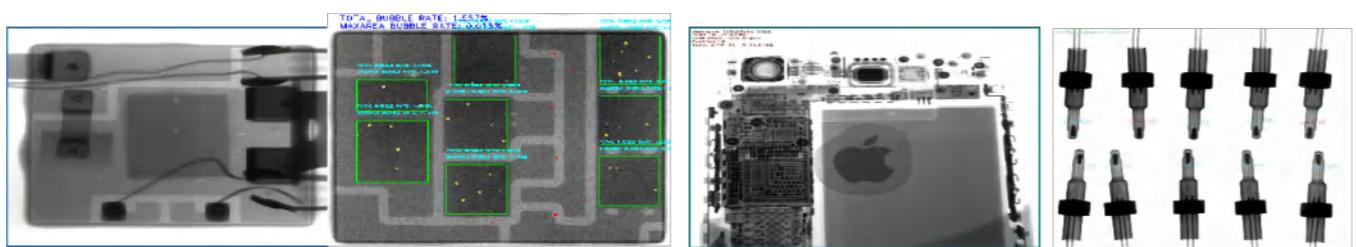
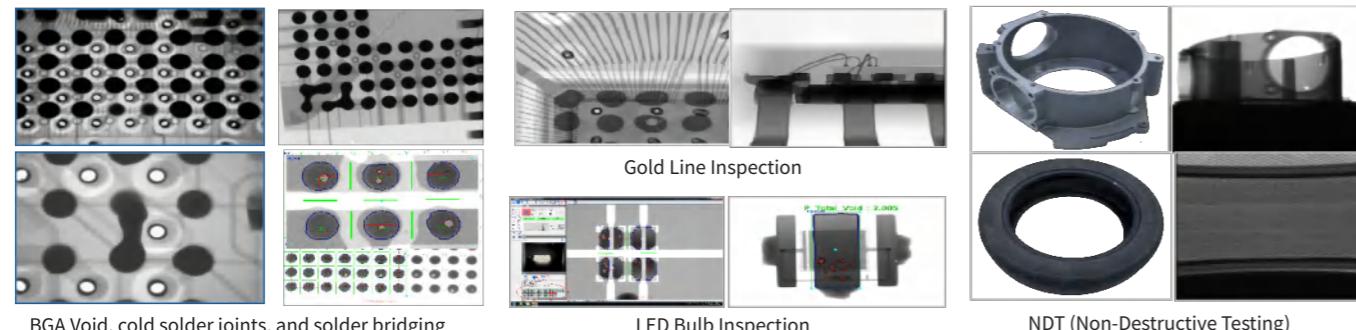


Image Segmentation
Algorithm for
Connecting Components

New Energy Inspection Machine Cases



X-Ray Inspection Equipment Applications



X-Ray Inspection Equipment Applications

