

Corporate Profile

Saki Corporation

saki





CHALLENGING The Creation of New Value

Saki Corporation ('Saki') is a leading manufacturer of automated electronic assembly inspection equipment. Saki provides quality inspection solutions that determine a product's viability by capturing and analyzing detailed imagery of the printed circuit board and components, replacing manual visual inspection with a highly accurate automated process. With a focus on power semiconductors and electronic substrates, Saki's equipment delivers premium quality assurance for the electronic modules that are essential to the manufacture of electrical products.

Electronic modules are at the heart of everything in the increasingly digital, networked world. As well as being required for cars, airplanes, smartphones, personal computers, and the base stations and data servers that support these services, electronic assemblies have also become crucial for efficient energy use in the face of increasingly serious environmental issues. By eliminating defects and ensuring quality manufacture, Saki supports lives and businesses, contributing to the realization of an affluent and sustainable society.

Founded in 1994, Saki innovated in a crowded and competitive inspection machine market with unique high-speed inspection technology. Since then, it has continued to grow alongside its customers by sensing new market needs and developing products that are shaped by them, driven by a management philosophy of 'taking on the challenge of creating new value'.

Saki's Challenge - to maintain a commitment to 'zero defect products'; to discover real needs and develop new technologies that contribute to a sustainable society; to work toward the realization of a future utopia; to continue to grow as a company for 300 years. The challenge continues.

CORPORATE SLOGAN

The Future in Focus

Saki's corporate slogan is 'The Future in Focus'. It expresses Saki's belief and mission, to contribute to the realization of a sustainable future society while taking on the challenge of creating truly new value.

Making 'zero defects' the norm

Electronics innovation is remarkable. It's today's digital society's infrastructure.

At the heart of this infrastructure sit electronic devices, their quality reflected in the quality of our digital society.

These include cars, airplanes, industrial equipment, and smartphones, computers, refrigerators, and air conditioners.

The digital infrastructure's printed circuit boards and semiconductors are becoming increasingly vital in the fight against climate change.

Today's electronic assemblies demand high-quality, accurate, and efficient inspection that always and only produces 'zero defect' products.

Saki's automated inspection solutions contribute to improving the quality of electronic products for our digital society.

The superior quality of Saki's inspection controls the quality of the entire manufacturing process and ensures a sustainable future.



Dedicated to achieving perfect quality for the digital society



Saki's total inspection line solution - supporting factory manufacturing quality and production efficiency

Advanced technologies for smart factories include cutting-edge optical and 3D X-ray imaging and measurement technologies, AI-enhanced high-speed and high-precision quality inspections, and total line solutions that improve productivity through reduced operator labor and defect losses.

2D and 3D-AOI (Automated Optical Inspection)

Saki leads automated inspection with its 2D-AOI's line-scanning technology for batch imaging and image processing. Its 3D-AOI machines are high-speed, high-precision 3D optical inspection systems that address quickly changing market needs with a wide range of choices, including optimized algorithm combinations and optical heads that increase resolution and height measurement range.



3D-SPI (Solder Paste Inspection)

The full-surface 3D measurement and inspection system uses a projector method to quantitatively detect solder printing defects. With both a shared chassis and unified programming interface common to the SPI and AOI systems, Saki's range reduces the burden of introducing new machines into the manufacturing line and significantly reduces labor overheads.

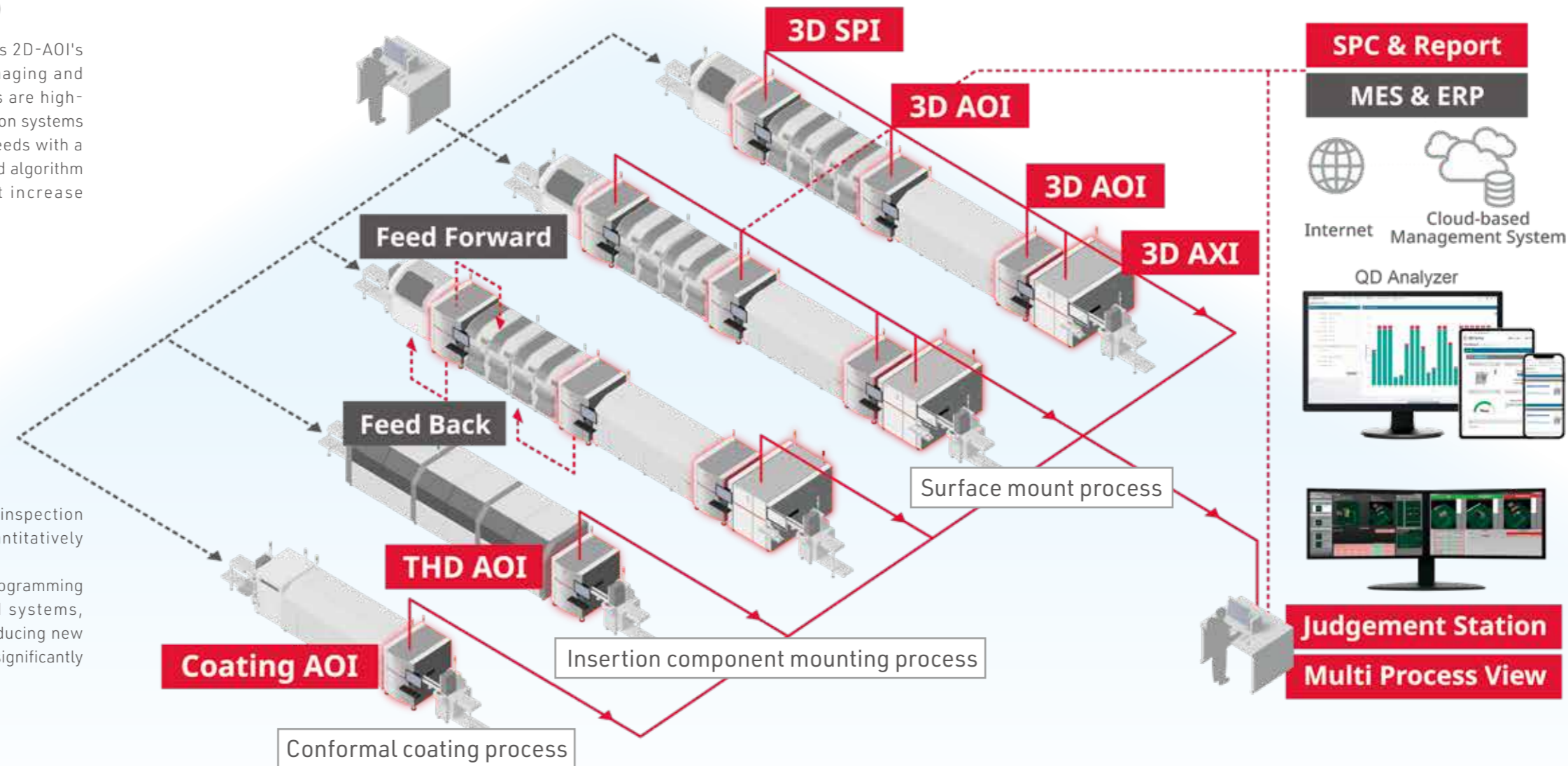
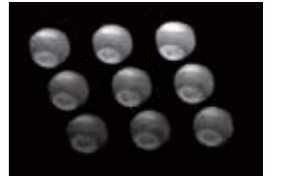
M2M (Machine to Machine)

Full inspection line M2M compatibility with both Saki and third-party systems is ensured through superior positioning accuracy of the exceptionally rigid frame and the high-precision linear scale, automatically adjusting component mounting position and amount of solder in cooperation with other line machinery, both before and after the process.

- * Feedback functionality from SPI to solder press
- * Feedforward functionality from SPI to pick-and-place machine
- * Feedback functionality from AOI to pick-and-place machine
- * etc.

3D-AXI (Automated X-ray Inspection)

Quality assurance of the latest highly integrated semiconductors and power modules, important technologies for a decarbonized society, requires precise 3D measurement of internal structures that can be obscured or hidden. Saki's unique 3D X-ray imaging technology allows high-speed in-line inspection with crystal-clear 3D images.



System Options

Saki's system options provide powerful support to operators, offering a range of functions to improve productivity that include:

- * Real-time verification of inspection results for all processes
- * Real-time collection of detected defect images for remote assessment
- * Operating status monitoring and traceability for the entire production line

Visit our website for more details!



- 1994 ● Founded the company
Moved to Kanagawa Science Park (KSP) as a start-up company
- 1995 ● Began development projects of visual inspection systems
- 1996 ● Released the original brand of high-speed SPI range <BF1>
- 1997 ● Began exporting inspection systems
- 2001 ● Established Saki Technology Corporation of America in the United States
(Changed the name to Saki America, Inc. in December 2005)
- 2002 ● Established a local subsidiary in Shanghai, China
- 2004 ● Established office of the Chinese subsidiary in Shenzhen, China
- 2005 ● Released world's first high-speed simultaneous double-sided inspection system <BF-Tristar>
Established representative office in Taiwan
(Established local subsidiary Saki Taiwan Co., Ltd. in Taiwan in December 2021)
Established representative office in Singapore.
(Established local subsidiary Saki Asia Pacific Pte. Ltd. in Singapore in April 2006)
- 2006 ● Established Saki Corporation Korea representative office in Korea
Established Saki Europe GmbH in Germany
- 2008 ● Acquired ISO9001:2000 Certificate
- 2009 ● Released original brand 3D AXI range <BF-X1>
- 2010 ● Established local subsidiary in Thailand [Saki Asia Pacific (Thailand) Co.]
Released the 3D AOI System <BF-3Di>
- 2011 ● Released 3D Inline AXI (3D-CT) for insulated gate bipolar transistor (IGBT) <BF-X2>
- 2012 ● Established Saki Europe GmbH Czech office in Prague
- 2013 ● Released 3D SPI range <BF-3Si>
- 2015 ● Established sales office in Nagoya, Japan
- 2016 ● Established a factory in Chiba, Japan
- 2018 ● Relocated company HQ to Koto Ward, Tokyo
- 2020 ● Relocated the Saki factory to Nara, Japan
- 2022 ● Acquired ISO14001:2015 Certificate
- 2023 ● Established local subsidiary in Mexico
[Saki America de Mexico, S.A. de C.V.]



To Be

Saki's automated inspection solution business autonomously manages manufacturing quality to address environmental challenges.

A sustainable society requires urgent action on environmental challenges. Saki is constantly tackling environmental issues with our manufacturing clients, working together at the forefront of sustainability.

We aim to protect the quality of the social and digital infrastructure and eliminate needless products.

Saki's automated inspection systems help printed circuit board and semiconductor manufacturers worldwide maintain quality and avoid defects. Saki's smart industrial machinery boosts productivity and energy efficiency with process-specific inspection equipment managed by integrated automation system software. Our autonomous quality control technologies save waste and help solve environmental challenges.

The Nara factory switched to green electricity in 2021. In 2022, Saki introduced a scalable, evolving inspection system that allows clients to make on-site modifications and additions of only the units they need to adapt to the ever-changing cutting-edge inspection environment.

Saki's sustainable manufacturing advances with our customers' smart factories to address social and environmental challenges.



A connected, cross-border network

With its global network Saki is a trusted partner for customers and their manufacturing sites around the world. Its global reach, local understanding, and close customer contact are dynamic. With its international customers, Saki nurtures the attentive work culture, hospitality, and sincerity of Japan. Saki is proud of its global reputation as a trusted supplier based on excellent work and ethics. Sales, Service, Procurement, and Development across its worldwide network think globally and act locally.

SALES & SERVICE

➤ For Saki, the customer's production site is of primary importance. The global service network, from Asia to Europe, to North and South America, is positioned to respond with no delay to inquiries from customers around the globe, delivering immediate results.

DEVELOPMENT

➤ At Saki, outstanding engineers of diverse nationalities participate in product development. With development sites in Tokyo, Prague, Shanghai, and Guadalajara, products are evolved in close proximity to its customers.

PRODUCTION

➤ Saki procurement capabilities continue to expand globally, enabling us to pursue the best in quality, cost, and delivery.



Company Profile

Saki Corporation
 Established April 8th, 1994
 Capital Stock 50 million JPY
 President & CEO Masaru Tamba

Major Operations
 Development, manufacturing, and sales of automated optical and X-ray inspection system for printed circuit board assemblies(PCBA), semiconductor package, or power module

<https://www.sakicorp.com/en/>

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