



**YOUR TEST AND
INSPECTION
PARTNER**

Test Research, Inc.

www.tri.com.tw

Test Research, Inc. is the world's leading supplier of Test and Inspection Solutions for the PCBA Manufacturing Industry. Test Research, Inc. offers the most robust product portfolio in the industry for automatic test and inspection solutions. From Solder Paste Inspection (SPI), Automated Optical Inspection (AOI), Semiconductor Optical Inspection (SEMI AOI) and Automated X-Ray Inspection (AXI) systems to Manufacturing Defect Analyzers (MDA), Functional Tester (FCT), and In-Circuit Test (ICT) equipment, TRI provides the most cost-effective solutions to meet a wide range of manufacturing test and inspection requirements. TRI solutions are designed to interoperate with other manufacturing equipment

**YOUR TEST AND
INSPECTION
PARTNER**





CORE VALUES

Teamwork
Rapid Response
Integrity
Innovation
Service

to minimize downtime,
optimize production quality
and reduce operator workload.

MISSION

Develop advanced technologies in
automated testing and inspection.

Improve and uplift the product
and service quality.

Enhance the quality of people's
lives through high-tech solutions.

VISION

Become the leading
brand in the
Automated Testing
Equipment market.

TRI has gained recognition and
acceptance by major international
brands and other world-class companies.

Presently, TRI has more than 950 employees
and has established offices in the USA, Germany,
Mexico, Japan, Korea, Malaysia, Vietnam, Thailand
and Mainland China. We also have distributors in over 30
countries. By introducing excellent inspection and testing
equipment to the world, TRI is offering customers not only
outstanding products but also comprehensive services. We commit
ourselves to fulfill our customers' goals and pride ourselves in customer
satisfaction. Our personnel embrace a common prospect and share the
reality of excellent performance.

MILESTONES AND ACHIEVEMENTS



● HQ & SUBSIDIARIES

● DISTRIBUTORS / REP.

Europe	Austria / France / Germany / Hungary / Ireland / Israel / Italy / Poland / Portugal / Romania / Russia / Slovakia / Spain / Switzerland / Turkey / UK
America	Canada / USA / Brazil / Mexico
Africa	Egypt / South Africa / Tunisia
Asia	India / Indonesia / Japan / Korea / Malaysia / Philippines / Singapore / Thailand / Vietnam

1989

Founding of
Test Research, Inc.

1990

Launched MDA
Product Line: TR518

1999

Established Branch
in Shenzhen, China

2000

Launched ICT Product
Line: TR8001

2001

Established Branch
in Suzhou, China

2002

- Established Branch in San Jose, CA, USA
- Listed on the Taiwan Stocks Exchange
- Launched AOI Product Line: TR7100

2004

Launched SPI Product
Line: TR7006



2024

- Established Branch in Guadalajara, Mexico
- Established 2nd Stage of Manufacturing Plant in Linkou, Taiwan

2023

Established Branch in Bangkok, Thailand

2020

Established Branch in Siheung, Korea

2022

TRI Certified:
ISO 14001/27001/45001

2008

- Established Branch in Tokyo, Japan
- Established Manufacturing Plant in Linkou, Taiwan

2007

- Launched AXI Product Line: TR7600
- Established Branch in Schwabach, Germany

2011

Named "Asia's 200 Best under a Billion" by Forbes

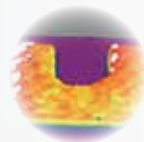
2021

Established Branch in Bắc Ninh, Vietnam



CERTIFICATIONS AND AWARDS

SMART TEST AND INSPECTION SOLUTIONS FOR THE CONNECTED FACTORY

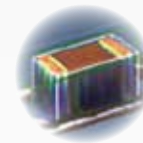


Solder Paste Inspection (SPI) Ultimate Resolution Shadow-Free 3D SPI

- Closed Loop Ready
- World-class Gauge R&R
- Industry Leading Speed

SMT

SEMI



Pre-Reflow Automated Optical Inspection (AOI) Ultra-High Resolution and Precision 3D AOI

- AI-Powered Inspection
- Multiple 3D-Technologies
- Real-Time SPC Trends

SMT

SEMI



Solder Printer

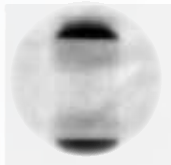
Pick & Place

Reflow Oven

Feed Back

Feed Forward

Feed Backward



Automated X-Ray Inspection (AXI) In-depth High-Speed 3D AXI Solutions

- Enhanced CT Planar Imaging
- Smart Board Warpage Compensation
- Ease of MES Integration

SMT

SEMI

Electrical Test (ICT + MDA)

In-Circuit Tester (ICT)

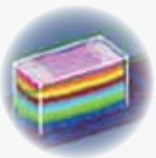
Next Generation Parallel Inline in-Circuit Tester

- World-class Testing Accuracy
- Intuitive UI Flowchart-based Programming
- Automated Diagnostics and Calibration
- In-System LED Testing, up to 1080 LED Channels

Manufacturing Defects Analyzer (MDA)

High Accuracy and Reliability Modular MDA Solutions

- Excellent Performance with up to 2560 Testing Points
- Ease of Integration with Robotic Arms
- Easy Operation with USB interface connection



Post-Reflow Automated Optical Inspection (AOI) Zero Escapes and Zero False Calls 3D Inspection Solutions

- Smart Inspection Library
- Foreign Material Inspection
- Conformal Coating Inspection

SMT

SEMI

Insertion & Wave Soldering

Skip Board Data





Semiconductor & Packaging Industry

The miniaturization of electronic components demands higher resolution and drives the production to increase the need for precise inspection solutions. TRI inspection platforms have robust metrology capabilities that enable high-reliability inspection, lowering the false call rates. TRI's AI-powered solutions can inspect Die and Wire Bonding, wafer surface and bumps, epoxy, and foreign material detection.



Automotive Industry

Intelligent Inspection solutions ranging from Coplanarity to 3D CT X-Ray Inspection are essential for the Automotive Industry. THT components are popular in the Automotive Industry; detect PIN shifts and height measurements with TRI's Inspection Solutions. TRI ICT solutions can test automotive LEDs and modern vehicles ECUs (Electronic Control Units) through CAN-LIN bus tests.

INDUSTRY LEADING TEST AND **INSPECTION AUTOMATION**



Consumer Electronics

TRI's Solutions provide a competitive edge to customers to meet the demands of the Consumer Electronics industry. Accurate inspection algorithms help reduce the cycle time, rework and cost of the production line. TRI's Smart Inspection Library promotes fast deployment and enhances the production quality and throughput.



Medical Industry

As a high fidelity industry, the Medical EMS, require high reliability and flexible algorithms for alignment, measurement, inspection and recognition. TRI Inspection Solutions deliver traceable world-class Gage R&R, high performance, accurate and reliable Inspection results.

LED Industry

Precisely measure the LED strips' coplanarity with TRI's optical inspection technologies. TRI's ICT LED Analyzer can easily test up to 1080 channels per test and measure simultaneously for color, luminance, saturation, hue, color temperature, and intensity.

Telecommunications Industry

With new technical innovations, such as 5G and AIoT, new requirements arise; integrated boards with multilayer and double-sided boards will become more common. TRI's Optical Inspection and Board Test solutions provide the EMS industry with accurate and full-range capabilities.

SMART FACTORY SOLUTIONS

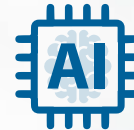
TRI'S SMART TEST AND INSPECTION LIBRARY PROMOTE EASE OF PROGRAMMING AND MAINTENANCE TO ACHIEVE PRECISE AND ACCURATE INSPECTION RESULTS.

SMART PROGRAMMING

Achieve seamless programming and improve your production efficiency with TRI's Smart Library. The Smart Test and Inspection Library promote ease of programming and maintenance to achieve precise and accurate inspection results.



Scan Board



Setup Inspection



Inspect Board

READY TO INSPECT IN MINUTES

SMART INSPECTION FEATURES



AI Driven Inspection



Deep Learning OCR



Remote Production Monitoring



Auto Calibration



AI Smart Programming

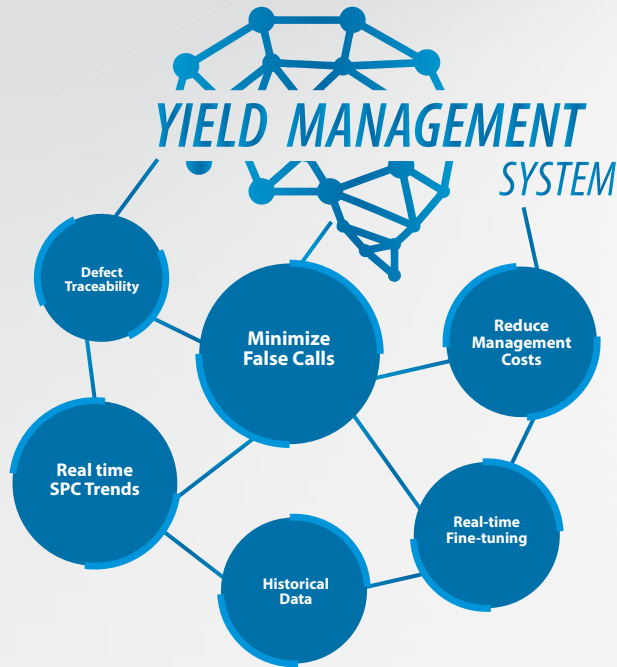


Metrology Applications



Smart Board Warpage

YIELD MANAGEMENT SYSTEM (YMS)



Strengthen your decision process and improve the efficiency of the operators while reducing the overall management cost with TRI's Yield Management System (YMS). The Smart Factory Software simplifies the production line monitoring as it integrates the test and inspection data and promotes productivity, data traceability, defect root cause and data integration.

Centralized
Production
Management

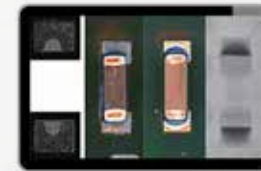
Total Yield
Management
Solution

Line
Performance
Monitoring

Automated
Defect
Tracking



PRODUCTION
ANALYSIS



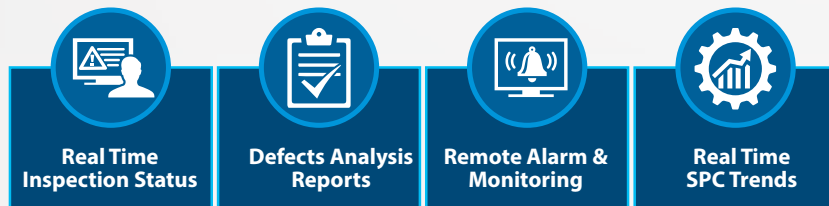
CENTRALIZED
INSPECTION CENTER



REAL TIME SPC TREND

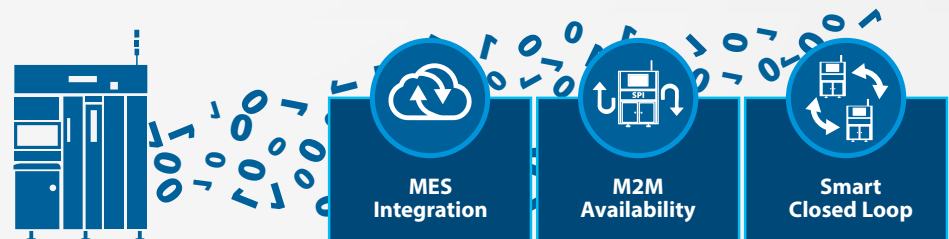
SMART MONITORING

TRI's Smart Factory Solutions allow operators to aggregate information from individual systems for statistical analysis of production line defect rates, reviewing and fine-tuning inspection results, and identifying component defect trends and emerging production issues.



BIG DATA READY

Boost your Factory Intelligence and Optimize your production line by easily integrating Big Data Analytics from your Test and Inspection Solutions. TRI's Smart Factory Test and Inspection Solutions promote full traceability and data exchange, by generating Big Data for your MES Applications, essential for optimizing your production your yield rate, enabling the Connected Factory.



Industry leading provider of
test and inspection solutions

TRI innovation

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