

# SQ3000™ for Semiconductor

Semiconductor Case Study

## Benefit Summary

Automating the inspection process with highly accurate, fast and easy-to-use systems helps save time, reduce costs and improve yields for 0201 components.

## Challenge

Our customer was using manual inspection for small, intricate 0201 metric components. This costly and time-consuming solution prevented this company from meeting mass production speeds. The customer was in search of an automated solution that could gather reliable data at high speeds, as well as detect defects sooner in the process to reduce operator time and cut down on costs.

For this particular application, the customer also needed a robust, flexible system that could properly inspect parts from a variety of suppliers including goldfingers. These parts are consistently evolving, have high variation, small components and increased shine.

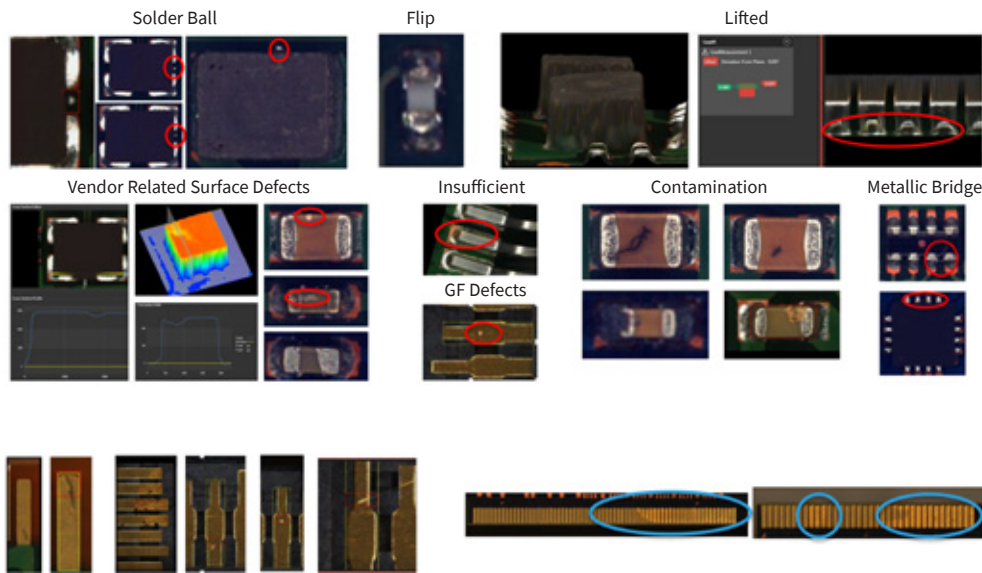
## Solution

To meet performance and speed requirements, we worked with our customer to integrate the SQ3000™ 3D Automated Optical Inspection (AOI) system that met their production requirements for line cycle time.

The SQ3000™ has a wide field of view (FOV) for general SMT inspection requirements, 3D chip-out, non wet and flux on goldfingers. With proprietary Multi-Reflection Suppression (MRS) sensor technology, our customer is able to find defects sooner and mitigate any measurement inaccuracies due to variations and shine, reducing costs and operator time.

The system was evaluated as a best-in-class solution with high accuracy, speed, an easy-to-use interface for reduced training time and the lowest escape rate which results in improved yields and operational efficiencies.





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