



Employees operating the Coordinate Measurement Machine in Receiving Inspection go through a formal training program.

In this issue:

SAI AND TEST	1
WORK CELL ADDITIONS	2
TRADE SHOWS	2

About SAI

Founded in 1993, Spectrum Assembly, Inc. is a one-stop source for all your contract manufacturing needs. We combine an expert team, flexible automation and a world class supply base to provide responsive, on-time delivery for even the most complex projects.

Our manufacturing operations are housed in a state-of-the-art 60,000 sf facility in Carlsbad, CA. We are small enough to provide a highly personalized approach, yet large enough to address your requirements from new product introduction through end-of-life.

SAI's Test Philosophy: Minimize Defect Opportunities

One of the challenges in high mix, medium volume production, is finding a balance between the level of testing necessary to meet quality objectives and minimizing test-related non-recurring engineering (NRE) fees.

The team at Spectrum Assembly, Inc.

takes a two-pronged approach. First, processes are designed to minimize defect opportunities and inspection is built in throughout the production cycle. Starting at Receiving Inspection, 100 percent of custom fabricated parts are inspected using a

(Continued on page 2)

Material Management Strategy Focuses on Minimized Handling

Spectrum Assembly, Inc.'s approach to supply chain management focuses on both flexibility and competitive cost. Strategic distribution partners are used for most electronic components. The majority of custom fabricated parts come from local suppliers.

"We've built a strategic supply base for

custom fabricated parts. While we do procure some PCBAs from Asian sources, sheet metal and plastics are normally procured from local suppliers. They are best able to cost competitively support the smaller lot sizes and more frequent deliveries that most of our customers require," said Karen Rosales, Purchasing/Materials Manager.

SAI recently added two more Mydata component towers, expanding the total number to six. The towers store bar-coded reels of components in a humidity and temperature controlled environment at point of use.

(Continued on page 3)

Test

(Continued from page 1)

Coordinate Measurement Machine (CMM). Employees operating the CMM go through a formal training program. Cables undergo a 100 percent continuity test and those carrying power also undergo high pot electrical tests.

Automated Optical Inspection (AOI) is utilized on the SMT line as an added quality checkpoint during production. Additionally, in-house x-ray is utilized to validate SMT processes for BGA and leadless devices per IPC-A-610 guidelines.

For products with more rigorous cleanliness requirements such as mil/aero or wire bonded assemblies, an ionograph is used to measure PCBA cleanliness levels.

The second part of SAI's strategy is to align closely with the customer's functional test strategy. SAI's approach in this area is highly flexible. Consigned functional test equipment can be maintained by SAI's staff or by the customer. Sometimes, a functional tester is shared with the customer in order to eliminate the need for two testers.



Eight work cells have been added to SAI's box build area. Box build business continues to grow as customers find value in SAI's vertically integrated solutions.

Box Build Work Cells Expanded

The box build area continues to grow. Eight work cells are being added to support existing and future growth.

The new work cells include in-bench power and an integrated ESD safe hard top.

"The layout supports Lean manufacturing-related disciplines such as 5S.

It is also designed to support both good ergonomics and efficient production flow. Box build is a growing part of our business and we continue to invest in the tools needed to provide a scalable solution," said Adrian Nishimoto, Operations Manager.

SAI's May Trade Shows Attract New Prospects

Spectrum Assembly, Inc. exhibited at the Del Mar Electronics Show at the Del Mar Fairgrounds on May 6-7 and at the Design2Part show at the Santa Clara Convention Center on May 20-21.

The Company has expanded its trade show participation to reach out to broader spectrum of customers as it continues to evolve from an electronics manufacturing services (EMS) predominately focused on local customers to a company with a more diversified geographic mix of customers.

"Traffic was great at both shows. We are already quoting two prospective customers. We are finding that our combination of vertical integration and focus on custom-

er service is very appealing to companies visiting these shows. They really like the fact that we are flexible enough in our business model to develop a solution that fits their service and responsiveness needs rather than expecting them to fit our model," said Alexandra Topp, Sales and Marketing Manager.



6300 Yarrow Drive
Suite 100
Carlsbad, CA 92011
Phone: 760.930.4000
Fax: 760.930.4008
E-mail: alexandra@saicorp.com



Spectrum Assembly, Inc.
contract manufacturing redefined

SPECTRUM ASSEMBLY, INC.

Materials

(Continued from page 1)

“The towers provide a range of benefits. Changeover time and excess handling are minimized because the reels are stored right on the line. Partial reels for low volume production are stored in an environmentally controlled environment which helps to minimize defects. The towers also add efficiency to our stocking processes because they report usage directly to our Manex MRP system and support customer reporting, helping customers leverage their buying power through SAI,” said Adrian Nishimoto, Operations Manager.



Component towers minimize handling by putting components at point-of-use.

[Visit us at www.saicorp.com](http://www.saicorp.com)

Copyright 2015 © Spectrum Assembly, Inc. All Rights Reserved.