

UTAC And Partners Develops "Industry Firsts" Fully-Automated Burn-In Board Cleaning System And Enhanced Automatic Burn-In Sorting System

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First Fully-Automated Burn-In Board Cleaning System, Co-Developed with Trio-Tech International, Enables Well-Maintained Burn-In Boards (BIB) with Minimal Overheads in Test During Burn-In (TDBI) Operation

Enhanced Automatic Burn-In System, Co-Developed with JunTech Co.,Ltd, Offers 90% Improvement in Flexibility, Conversion time and Cost

Singapore, June 3, 2002 - United Test and Assembly Center Limited ("UTAC"), a leader in semiconductor assembly and test services, today announces the successful completion of two joint-development projects with industry partners that resulted in two "Industry Firsts" systems that will enable greater efficiency and lower costs to UTAC's customers. These developments are part of UTAC's continuous improvement programs.

UTAC and Trio-Tech International Pte Ltd ("Trio-Tech") have jointly developed the CUBIB TTI-7002, the first fully automated burn-in board cleaning system. This system will replace part of the current BIB maintenance work, which is done manually at the moment. The cleaning of BIB, especially the burn-in sockets where ICs are being held, is the first process of the overall BIB maintenance. Proper BIB maintenance is crucial to ensure high TDBI yield as well as smooth operation in production, not to mention increase life span of the BIB.

"The addition of this equipment into our BIB maintenance overall system will help ensure that UTAC deliver good condition BIB for continuous use in testing & burn-in of various products from our customers. What used to be manual and intensive work can now be done more efficiently. The automated process not only assures the consistency of cleaning but also increases the throughput", said Mr. C.P. Looi, Director of Test Engineering for UTAC.

"We are pleased to work with UTAC on this burn-in automation project that can help in improving both productivity and effectiveness in the maintenance of BIB. This equipment together with our LUBIB (Automatic Loader/Unloader with on-line bench check station) has allowed us to make burn-in process automation a reality", said Mr. Richard Lim, Corporate Vice President for Trio-Tech International.

JunTech Co.,Ltd ("JunTech") was UTAC's partner in the joint development of the JTS3201, an enhanced automatic burn-in sorting system. This system is an enhancement over the existing JTS3200 system. UTAC began working with JunTech in mid-2000 with the purchase of the JTS3200 system and the JTS3201 is a result of continuous joint-development efforts between both companies.

A key enhancement on the JTS3201 over the previous version is its flexibility to handle multiple package types with extremely fast conversion time. Faster conversion time is critical to ensure that there is minimal equipment down time resulting in higher equipment utilization. The conversion kit needed has also been much simplified and available at a much cheaper cost.

"In today's subcontracting business, where demand is constantly changing, ability to do fast conversion with simple and low cost change kit is critical. The JTS3201 adds to this ability in UTAC and allows for greater flexibility, higher efficiency and lower cost in our operations", said Mr. C.P. Looi, Director of Test Engineering at UTAC.

"UTAC was very forward-looking in the requirement and worked closely with us while challenging us with stringent requirements and enhancements for our continuous improvement. This has resulted in JunTech developing the JTS3201, a reliable and high throughput machine. One of the key features is simplified change kit for different packages. The kit just snap in place in less than 10 minutes, an improvement of 90% in change-over time", said Mr. Jun You, President of JunTech.

Mr Chok Yean Hung, UTAC's VP for Test Engineering added, "We are constantly and continuously striving for new and innovative ways to improve and enhance our manufacturing systems and processes. We are happy with the successful completion of these two projects and are already working on others as part of our continuous process development roadmap."

About United Test and Assembly Center Ltd (UTAC)

United Test and Assembly Center Ltd. (UTAC), founded on 16th March 1998, is a QS9000/ISO9001/SAC certified semiconductor assembly and test services provider. We offer full turnkey services from wafer sort / laser repair, packaging, Test / Burn in, Mark-Scan-Pack and drop shipment services. In addition, we provide customers with value-added services in package design and simulation, test program development and device characterization, failure analysis services and full reliability test services.

UTAC is committed to provide customers one-stop turnkey semiconductor assembly and testing services for wide spectrum of memory, logic and mixed signal devices.

UTAC World Wide Web address is <http://www.utac.com.sg/>.

About JunTech Co.,Ltd

JunTech is a leading manufacturer of burn in loader/unloader and sorter base in Korea. The machine is an integral part of the burn in or test during burn in operation where it provides load/unload or sorting function of IC devices. JunTech believes continuous innovation and R&D is the key to maintaining its market leadership.

JunTech World Wide Web address is <http://www.juntech.com/>.

About Trio-Tech International

Founded in 1958, Trio-Tech International designs and sells equipment and systems used in the manufacture and testing of semiconductors. Our centrifuges, leak testers, rate of turn tables, and burn-in equipment are primarily used to test finished semiconductor products and other microelectronic products at the "back end" of the manufacturing process.

The wet process equipment and temperature controlled chucks are used to test the semiconductors at various stages in the "front end" of the manufacturing process. Trio-Tech also provides semiconductor testing equipment manufactured by others.

Trio-Tech sells its products and provides testing and distribution services through facilities in the United States, Europe, and the Far East. The Corporate Headquarters is located in Van Nuys, California.

For further information or to request quotations for any of Trio-Tech's complete line of semiconductor test equipment, please visit the Company's Web site at www.triotech.com.sg.