

# Statistical Process Control Lee King Technology Guards the Quality of Fastener Inspection Equipment

by Finnick Wu, *Fastener World*

How to guarantee the quality of finished fasteners? Fastener visual inspection machines play an inseparable part in that. Lee King Technology Co., Ltd., located in Kaohsiung City, Taiwan, was founded in 2005 and now with the management guidelines of “professional manufacture, innovation & sustainability”, is a maker of automatic electronic semiconductor equipment, electronic carrier bands and screw optical sorting machines. In the leadership of General Manager Mr. Kuan-Jen Wang, the company started to integrate the electronic part appearance inspection with mechatronics, and after understanding the need of the screw industry in Kangshan District of Kaohsiung City, the company turned to develop screw sorting machines and headed on to the field of automation.

## Statistical Process Control for Swift & Accurate Fastener Sorting

Lee King provides electronic screw visual inspection machines (SV0204), 6-axis robotic arm visual positioning size inspection machines (AT-100R), nut visual inspection machines (SN-100), nut internal thread inspection machines (NV001-TG), special long screw visual inspection machines (SV0210-2-QC). All sets of equipment provide full screw inspection as well as customized sorting. In order to achieve customers' goals, and provide complete, convenient and efficient services, they can add more functions to inspect if needed. Lee King is most proud of the SPC system installed on their machines which can analyze the cause of sorting anomalies and trace the root of the problem during the manufacturing process, making the quality control flawless.

Usually customers demand speed and accuracy for fastener inspection. Lee King can have both factors



precisely under their control, even on portions where it is difficult to inspect. With more than ten years' experience, Lee King provides the most effective solutions, satisfying customers with no complaint. The equipment is designed and built up all by their professional engineers, so they can discuss with customers effectively and fix mistakes in a short period of time should any problem occur on the equipment.

## Applying for Patents & Expanding Market Share Across China

With the motto of “Quality & Service First”, Lee King handles quality with full attention and effort, checking on their inspection machines periodically to ensure they function well. To protect the company's intellectual property rights, they got the certificate of ISO : 9001\_2015, applying for many patents to secure the company and the equipment. Lee King participates in many fastener fairs in Europe and America, increasing the exposure of the company and offering better options for selecting screw inspection machines. In addition, they have set up plants in China, a.k.a. the world's factory, to expand their domain and serve more clients. Simplified equipment, accurate sorting and maximization of economic benefits are Lee King's constant advantages.



# Quality Assurance by Specialized 3rd Party Inspection Asia Technical Services

by Finnick Wu, *Fastener World*

## Satisfying Various Customer Requirements with Inspection, Calibration and Agency

Creditable 3rd party inspection is the key for fastener quality and the assurance for both customers and manufacturers. When foreign customers purchase fasteners, hardware, and hand tools from Asia, they request the products to be inspected before shipment to ensure quality, and as an independent 3rd party inspection institution, Asia Technical Services, founded in 1976, provides relevant services. To comply with the changing market, the Company established an ISO 17025 certified torque calibration laboratory, a length calibration laboratory, and then a hardness test laboratory for various inspection and calibration requirements, including dimension measurement, fastener tests, process audit, and export inspection. Besides, it also expanded its calibration range in 2017, for example, the ring gauge range is now with in 2mm to 150mm, and the plug gauge range is with in 0.05mm to 150mm. Furthermore, with the supports from its offices in Taipei, Tainan, and Shanghai, it not only reduces product's QC risk before shipment, but is also more time saving and cost effective.

The company provides three main services: inspection, calibration and agency. In terms of inspection, 95% of its customers are from Europe, and most of them are manufacturers, and the rest are customers from North America and Asia including China, Southeast Asia, and Taiwan. It provides a professional inspection platform for the industry, and fastener products are the core element of its business. It also expands its services to hardware, hand tools, and surface treatment. To provide premium inspection service as well as good products to fulfill customers' different requirements, the company also acts as representatives of German SCHATZ (Kistler Remscheid) Analyze system, microGLEIT water based lubricant, Doerken anti-corrosion coating, SCHLAGER industrial heat treatment system, n-gineric intelligent transducer, and IAC scanning and measuring system.



## Credibility Originated from Various Certifications

After acquiring the LRQA ISO 9001:2000 certificate in 1993, Asia Technical Services never ceases the acquisition of QC related certifications. To guarantee inspection quality for clients, it set up an ISO 17025 certified calibration and testing laboratory in 1994, and passed the revised ISO 9001:2015 audit in 2017. As information today is transmitted at the speed of light and changes rapidly, it is already impossible to compete and earn profits by the time gap of information. Therefore, the better performing companies will stand out more.

## Trust is the Foundation of Asia Technical Services

QA Department is the unit with highest maintenance cost but could not provide book profits, so its importance is usually overlooked. As customer's QA department in Asia, Asia Technical Services is able to react to problems quickly, and closely interact with related domestic and foreign industries to have the latest information. The company is planning to upgrade other systems and expand to new fields to offer more precise measurement services. Even though there are numerous skills, equipment, contents and methods for inspection, the most important element is trust. Customers' long-term trust in inspection quality is the reason for the growth of Asia Technical Services, and it is this trust that keeps the company making improvements in equipment and technology continually, and growing with customers.



# Fastener Jamher Taiwan Inc.

## Trusted by Clients for Reliable 0 ppm QC Policy

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Zero customer complaint and quality are pursued by all manufacturers, and Fastener Jamher is the leading one in those aspects. Founded in 1999 in Tainan City, southern Taiwan, the company specializes in the R&D and manufacture of blind rivet nuts, welding nuts, flange nuts, T nuts, sleeves, special nuts, and OEM fasteners. Most of its products are for vehicle manufacturers, and up to 90% of its products are exported mainly to Europe and the U.S., followed by other markets including Japan and Southeast Asia.

### Reducing Defects to Achieve 0 PPM

President Steve Wu is very particular about quality. "Defect prevention in process control and deliberate consideration on how not to incur defects are more important than relying on final inspection by inspection machines. With quality and technology advantages, the enterprise can compete with low priced products," said the president. The unique advantage of Fastener Jamher is to link the inspection machines with packing machines to facilitate accurate and quick packing and delivery after inspection. Under the strict quality requirements from vehicle manufacturers, each process is undertaken according to SOP and targets at 0 PPM production.

### 100% Customization with Certification

In addition to quality, the company also introduced ERP system to control the progress of each process to fulfill customer's delivery requirements. All products are manufactured according to customer's drawings to achieve 100% customization.

For example, a recent developed customized flanged nut, which requires perpendicularity of 0.0024" between the internal threads and flange, can be directly forged by Fastener Jamher in compliance to requirements. This not only reduces production cost, but also shortens lead time. With the best management team among the industry and under the evaluation via APQP, customers in need of new product development are provided with suggestions and services according to their customized requirements. New product development tailored to special requirements is the driving force behind the company's growth, and customized service is the competitive edge that Fastener Jamher is most proud of. In addition to successfully passing the German TÜV audit, ISO/TS16949 and D-U-N-S Registered certification, it also obtained the IATF 16949:2016 issued by German TÜV and ISO 9001:2015 quality system certificate. Its business potential and R&D capability are nothing to be overlooked.

In the changing market environment, maintaining existing markets and developing new ones are both necessary. Fastener Jamher will keep on developing high-value special fasteners and strengthening internal management to continue the competitiveness. Looking at the 20th anniversary of Fastener Jamher next year, the company said, "We are grateful for your trust that gives us the chance to provide services, and we appreciate the support of industry partners. We will keep on providing reliable products and supreme services and grow with our partners and customers."

