

## Reducing Risks and Increasing Efficiency with the FARO Laser Tracker



### Problem:

When manufacturing large parts, or working with large equipment, it can be difficult to perform high-accuracy inspections and measurements. Due to the size of the objects, a stationary or "fixed" coordinate measuring machine (CMM) cannot be used. A gun-type CMM, which incorporates a CCD camera, can barely measure a single car.

About 15 years ago, the only instruments that were capable of measuring these large objects with high precision were transits, which have the downfall of being dependent on the operator's ability. Sasaki Seishakusho Co., Ltd. – headquartered in Kakamigahara City, Japan – manufactures very large objects, and acknowledged that they needed a better solution.

### Solution:

In 2000, Sasaki heard about a product that was capable of measuring large distances with very high precision. At that time, they implemented the SMX4500, the predecessor of the

FARO Laser Tracker.

In its first few years of operation, Sasaki's primary business had been automotive parts processing. Approximately 20 years later, aircraft projects accounted for approximately 50% of all orders, thanks to the company's technological CAD skills and their facility's location near the leading aircraft manufacturers. Using the SMX laser tracker provided them with the advantage of being able to meet the highly-precise measurement specifications required by their aircraft customers.

Currently, orders from aircraft manufacturers account for 80% of Sasaki's business, while the rest come from various jigs, tools, and facilities. They recently upgraded their laser tracker system to a FARO Laser Tracker in order to be able to use the latest technology and supply their customers with the highest quality, precise, products. They also use their Quantum FaroArm and FARO Laser ScanArm for measuring smaller objects, or those with complicated shapes. Sasaki has a total of four FARO Laser Trackers, five FaroArms, and one FARO Gage.

### Return On Investment:

"By incorporating measurements with the FARO Laser Tracker into the production process and checking the precision of the projects, the risks of having to rework them have been considerably reduced, contributing to the improvement of our efficiency," commented Mr. Goto, President of Sasaki. "Also, by having solutions capable of retaining the measurement results as data, we are able to easily accommodate both broad and precise specification requirements. We are glad we can meet our customers' needs for even more sophisticated technologies and products."

Taking advantage of the know-how gained from measuring their own products, Sasaki now has a JMS division specifically for providing measurement services. Making full use of their portable FARO CMMs, they can offer on-site measurement services to suit their customers' needs throughout Japan.

