A-Line Precision Tool Achieves Significant Time Savings With the FARO GagePlus

The in-process and final inspection verification of structural frame components and parts manufactured for markets such as aerospace and defense create challenges that are difficult for traditional metrology methods to overcome. Many of these inspections include angular measurements and measurements of dimensions and sizes of prismatic features. Positional callouts of holes and machined features are also required. The overall size and complexity of the shape of these parts often do not fit traditional fixed CMMs. This forced the use of and reliance on combinations of hand tools such as calipers, height gages, and bore gages.

These hand tools, with their inherent natural inaccuracies, require reporting to also be done by hand. Not only are these precision machined components difficult to measure accurately and quickly with traditional metrology, but the potentially flawed results that result create slowdowns and added costs.

A-Line Precision Tool of Toronto, Ontario has over forty years of tooling and machining experience. They provide world class service to the aerospace and defense industries through a commitment to innovative solutions and to quality control at every step. A-Line (a-linetool.com) produces various components ranging from aerospace turbine engine parts to nuclear reactor components.

One of their precision machined components is a tubular "military reeling frame." As with many such parts, typical measurement tools simply did not provide A-Line the means to inspect and verify parts as their customers demand. Traditional tools were too slow and were unable to access all areas as needed.

The FARO GagePlus eliminated these issues. A-Line decided to go with the FARO solution for its cost, software, and overall ease-of-use. The FARO Gage provides the benefits of portability and speed that allows A-Line to access hard to reach areas and inspect them quickly. They measure each frame they produce and they generate a GD&T report for their customers on each one.

For A-Line Precision, the time savings using the FARO Gage are significant. Measurements are faster and more convenient than with a traditional CMM. In addition to the speed gained, the product's ease-of-use allows anyone to be able to measure and inspect parts. The FARO Gage, therefore, compliments A-Line's overall philosophy of innovative solutions and quality at every step.

"The flexibility, portability, and accuracy of the FARO GagePlus along with its ease-of-use made the decision for us," states Rob Muru, President and Owner. "I've been promoting the Gage to all of my customers and colleagues since the day we acquired it."