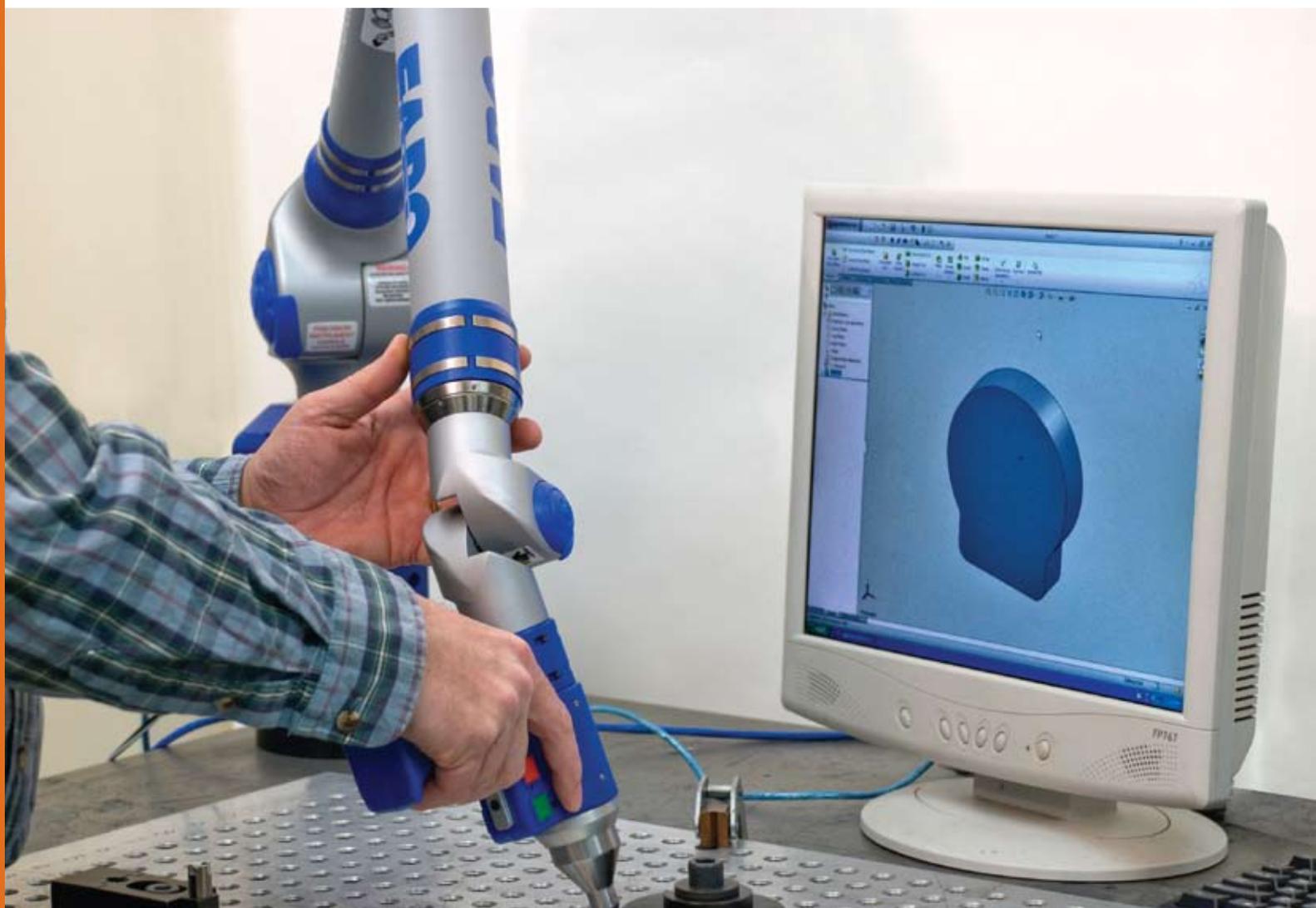


Antron Cuts Reverse Engineering Time in Half with the FaroArm



Flexibility, diversification, and the continued renewal of technology has always been a constant goal at Antron and they are committed to the use of new technology as a means to bring cost savings to their customers.

"The time savings we have realized have been a great value to us," said Engineer Don Clifford. "I would estimate that the FaroArm has cut our engineering time by 50 percent."

FARO®

Antron Engineering and Machine is a leading innovator in the highly competitive contract manufacturing marketplace. They specialize in design for manufacturability – improving product design and lowering final product costs without sacrificing quality. Based in Bellingham, Massachusetts, Antron (www.antroneng.com) has become a value-added contract manufacturing partner to the world's leading OEMs.

Antron manufactures components, hardware kits, and assemblies for virtually any finished good. They set apart from other firms because of their attention to detail. All efforts are reviewed by engineering and any discrepancies in manufacturing data are located and problems corrected before the product is built.



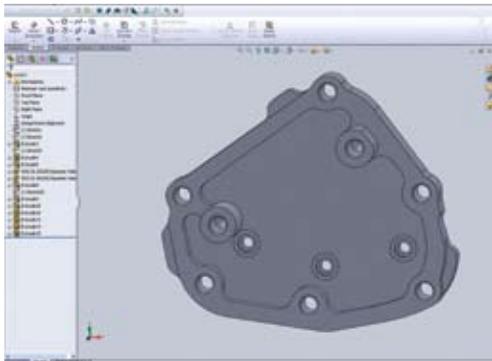
Problem

Some of the many parts that Antron must measure and inspect are the aluminum crank shafts and motor covers for various style motorcycles. These parts have a variety of irregular and complex features and range in size from approximately 2x3x1 inches to 9x7x3 inches.

These parts were previously measured with a traditional fixed CMM. The CMM was, however, designed more for production use and required Antron to separately build part models in SolidWorks®. The result was a reverse engineering process that was very time consuming.

Solution

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As Antron looked to find a better solution to their traditional CMM, they considered several different technologies. The determining factor for them became the ability to directly interface with SolidWorks software. With the FaroArm® Platinum, they are able to reverse engineer and build native SolidWorks models without any intermediate steps. By integrating the measurement and modeling processes into a single step, Antron saves a significant amount of engineering time – reducing their engineering costs as well as their prototype and production times.

“We have dozens of existing covers that must be engineered and the FaroArm will be used on all of them,” said Engineer Don Clifford. “We’ll also use it for all new designs as they come in.”

Return on Investment

As it is with any manufacturing company, time equals money. That is no different for Antron Engineering and the FaroArm definitely saves them money.

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Images Courtesy of Chuck Ladouceur/Red Dog Studio