

Jackson Jonson Enterprise Builds Custom Services Using the FaroArm



"Jackson Jonson Enterprise was started with the FaroArm in mind; we have custom-built the service we offer to the public around the capabilities we have gained. Because of how new we are, we haven't so much replaced a process with the FaroArm as hit the ground running offering services not possible without the FaroArm," says Bradley Smith, Jackson Jonson Enterprise's General Manager.



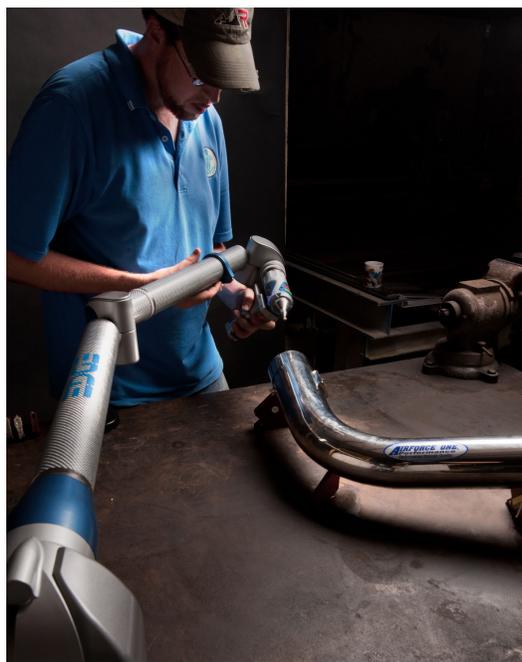
Jackson Jonson Enterprise is an independently-owned, design and fabrication company based in Austin, TX, offering product design, development and manufacturing services to a wide range of clientele including manufacturers, wholesalers, entrepreneurs and individuals. Specializing in reverse engineering, design, CAD and prototyping services, Jackson Jonson works with their clients to take any idea from the “cocktail napkin” stage to ready-for-market products.

As an integrated partner in the product development process, Jackson Jonson has expanded its capabilities over the course of the past year to include digital design, product description, precision measurement and rapid prototyping capabilities for the widest range of products possible.

Using a custom tailored product development cycle consisting of four stages for each of its clients (Discovery, Feasibility, Definition, and Execution), Jackson Jonson provides assistance in all aspects of the development process from drawing, modeling, material specification, project research, planning and budgeting, to patent process guidance, marketability planning, and production.

Problem

Jackson Jonson recently acquired Air Force One Performance Industries, an automotive accessory manufacturing company with several lines of air intake products. As a growing company with a focus on providing clients with the best products and designs possible, the company knew they needed to equip themselves with the latest hardware and software. They wanted a CMM solution that would ensure that product quality was up to par with their new acquisitions, as well as provide them with a flexible, easy-to-use solution for reverse engineering and modeling of existing parts.



Solution

After comparing multiple products, the decision was made to purchase the FARO Edge ScanArm. As the latest generation of the FaroArm product line, the Edge improves production, quality, and reverse engineering processes by rapidly verifying or scanning parts with confidence and accuracy.

The first ever “smart arm”, the Edge features an integrated personal measurement assistant that revolutionizes portable metrology by providing stand-alone basic measurement capability through its built-in touchscreen and on-board operating system. The addition of the FARO Laser Line Probe allows Jackson Jonson to significantly increase scan coverage without sacrificing accuracy, providing exceptional speed and feature definition.

“From the purchase of the product through training, and even troubleshooting simple software tasks with customer service, implementing our FARO system has been very straightforward,” says Bradley Smith, General Manager of Jackson Jonson.

Primarily used for drawing mounting points and maximum tolerances in automotive applications, Jackson Jonson utilizes the FARO Edge along with CAM2 software to measure 3D spaces and objects quickly, easily and accurately.

Jackson Jonson uses their Edge to measure the engine enclosures of vehicles for Air Force One Performance

Industries intake products. This allows them to gather the critical dimensions in a digital format before they ever undertake a kit development. "By calculating the envelope in 3D space that we can fit our part into, the FaroArm allows us to build parts that fit the first time," adds Mr. Smith. The portability, automatic reporting, and accuracy are key features that they rely on.



Additionally, the Jackson Jonson team utilizes the Edge to measure bent stainless steel tubes that are used in the Air Force One Performance Industries' automotive cold-air intake kits. The Edge has allowed them to quickly find the centerline bend radii on the tubes, as well as quickly model the assemblies with accurate hole placements, weld-on attachment placements, etc.

As the most cost-effective solution among its competitors, the Edge provides Jackson Jonson with the versatility and flexibility they were looking for, in addition to a simple learning curve for new users. The portability of the device and the compatibility with various software platforms has helped Jackson Jonson to quickly gather precision measurements in any number of locations.

Return on Investment

Jackson Jonson has always looked for solutions to simple problems through creative applications of materials, design techniques, and fabrication methods. By integrating the FARO Edge into their toolkit, the team has found that nearly every project they take on starts with some use of the FaroArm. Used in applications such as dimensional analysis, CAD-based inspection, prototype inspection and comparison, alignment in machining processes, and reverse engineering, the Edge has enabled Jackson Jonson to meet their customers' 3D measurement requirements whenever and wherever they need them.

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