

## 3D Engineering Solutions leading edge technology offers cost saving to OEM's offloading mature tooling programs

ISO 17025 Accredited 3D Engineering Solutions specializing in advanced portable laser data collection, 3D modeling and reverse engineering utilizes 100 years of collective aerospace composite experience in managing legacy tooling offload programs.

3D Engineering Solutions 15,000 sq. ft. state of the art metrology lab and rapid tooling center of excellence creates lean green processes, tools, and fixtures for advanced manufacturing in the field of aerospace, military, automotive and marine industries.



Saving time and money by using laser scanning technology, collecting 20,000 points per second, CNC tool paths can be generated and optimized directly from 3-D scan data using leading edge point cloud and high end Unigraphics NX5 CAD software. This can accelerate mold/tool/die material removal while enhancing tool life.

Legacy product modernization is the key to economical success for mature tooling offload programs. 3D Engineering Solutions create precision when reverse engineering from physical parts that have little or no additional design documentation. If a component's initial design intent has been partially lost as a result of production process variation or tool degradation, this process can help identify and correct problems.

Once 3D Engineering Solutions team collects, at customer site or in their metrology lab, detailed 3-dimensional data from legacy products, tools or fixtures, CAD models can be easily created to facilitate changes, corrections and upgrades to product or tool design. This accelerates the iterative process by which today's products and processes are modernized and improved.

Time is money, and with 3D Engineering Solutions state of the art engineering tools and 100 years of collective experience, OEM's can successfully offload mature tooling packages quickly and economically.

[www.3D-engineering.net](http://www.3D-engineering.net)