

Aviation



www.psm.com

Our Aviation and Aerospace business line leverages over 20 years of PSM's experience in designing, developing and manufacturing service solutions for high-technology heavy-duty gas turbines used in the global power generation industry.



Whether providing thrust for an aircraft or generating electricity in a power plant, PSM's approach and commitment to finding innovative solutions for our customer's gas turbine assets remains our top priority.

Engineering Services

With over 150 engineers on staff with years of aviation and aerospace experience, PSM offers a full suite of engineering services that supports development initiatives for OEM manufacturers, MROs and the DoD.

- + Turnkey Product Management
- + Reverse Engineering
- + Blue Light Scanning
- + Design Development
- + Manufacturing Support
- + Metallurgical Process Qualifications
- + Metallurgical and Failure Analysis
- + Prototype and Engine Test Hardware Development
- + Additive Manufacturing
- + Complete Suite of Analytical Tools to Support Design and Development
- + Rig Testing



New Parts Manufacturing

With a dedicated team of manufacturing, process and quality engineers PSM has been manufacturing both cold and hot section components for over 20 years with demonstrated engine validation. We combine our in-house workshop capability with our extensive global supply chain to manage the entire development and manufacturing cycle.

- + Compressor Blades and Stators
- + Turbine Blades and Vanes
- + Fuel System Components
- + Advanced Combustion Systems
- + Rotor Components
- + Large Structural Components
- + Legacy or New Engine Platforms



PSM Workshop Capabilities

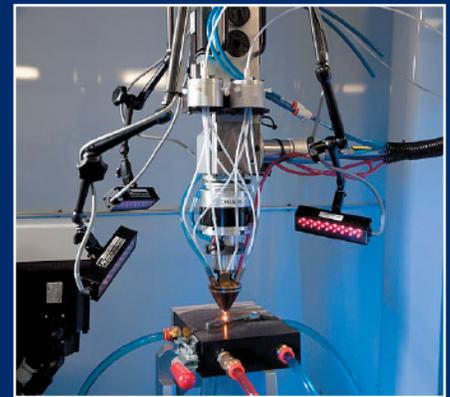
The 105,000 sq. ft. PSM Jupiter, FL Manufacturing and Repair Workshop offers the following equipment and services:

- + 3, 4 and 5 axis CNC mills
- + Wire, Plunge and Fast Hole CNC EDM
- + CNC grinding
- + Large format horizontal boring mill
- + Manual lathes and mills
- + (2) Vacuum furnaces
- + Air circulating furnace
- + Fluoride Ion Cleaning (FIC)
- + Brazing services (including honeycomb)
- + Laser cladding and Laser welding
- + TIG, MIG and resistance welding
- + (2) Coating booths – HVOF, APS, Dual Wire Arc
- + Chemical stripping of MCrAlY Coatings, and ultrasonic and hot water wash cleaning
- + Media and bead blast
- + Vibratory finishing
- + NDT: FPI, digital x-ray, eddy current, ultrasonic inspection, airflow and moment weigh
- + Metallurgical Lab - Comprehensive metallurgical analysis, failure analysis/ fractography, and scanning electron microscopy
- + Metrology Lab - Blue light scanning and CMM

Cold & Hot Section Repairs

In today's highly competitive market, end users need to achieve peak performance while minimizing life cycle costs. PSM can help with a full spectrum of parts reconditioning services — all backed by PSM engineering and advanced technology. These state-of-the-art reconditioning services can extend the life of your components and optimize your maintenance budget.

- + **Advanced process technologies:** Laser welding, Diffusion brazing, FIC, Chemical stripping and APS/HVOF Coating
- + **Complete machine shop services:** CNC grinding, CNC milling, RAM & Wire EDM, EDM hole drilling
- + **Complete NDT and metallurgical services on site:** FPI, Digital X-ray, Scanning Electron Microscopy
- + **Metrology:** Blue Light Scanning, CMM



Qualifications

PSM has a well established Quality Management System (QMS) and has maintained it's ISO 9001 certification since 2002. PSM is currently certified to the ISO 9001:2015 standard by Lloyd's Register.

Since late 2018, PSM has been actively pursuing all the administrative and regulatory qualifications to become a new parts manufacturer and service provider in the Aviation Industry. In mid-2019, PSM achieved its AS9100D & BS EN ISO9100:2015 certification through National Quality Assurance Limited(NQA) .

Additionally, PSM maintains a government Cage Code and is ITAR Registered which enables PSM to actively bid on government and military contracts.



Contact your PSM Sales Representative for more information. Call: **561.354.1100** or email: sales@psm.ansaldoenergia.com

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