

# Senior Aerospace Connecticut



Precision  
Manufacturer  
of Complex  
Flight Safety  
Critical Aerospace  
Components



**senior**  
**Aerospace**  
Connecticut

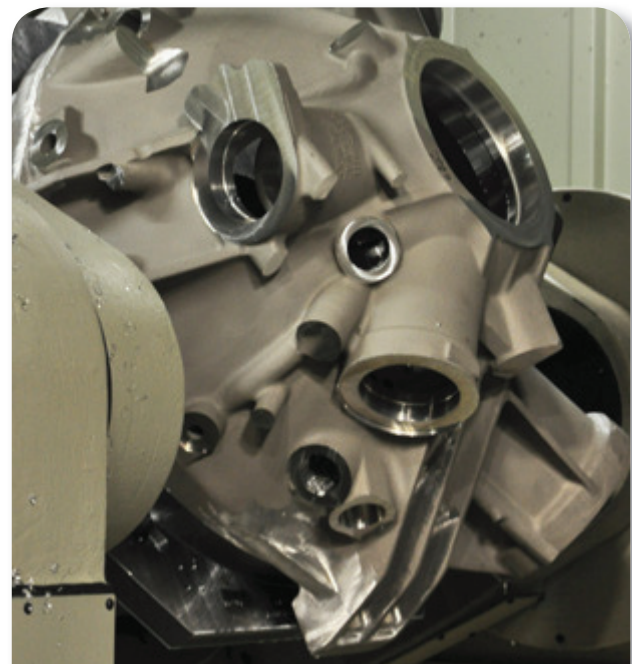
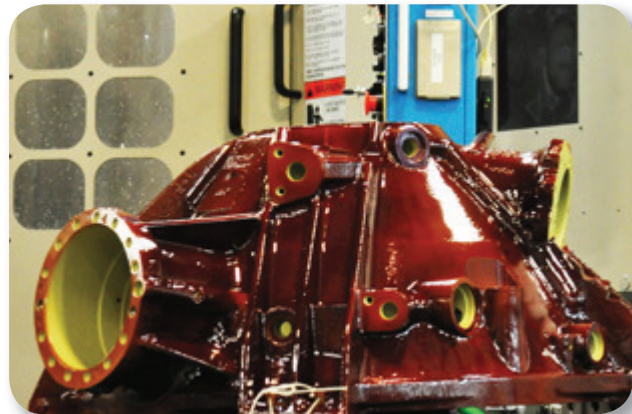


# Precision Manufacturing of Aerospace Components

Senior Aerospace Connecticut is regarded as a pre-eminent manufacturer of aero engine, transmission and rotor-head components for military and commercial aircraft platforms.

We are an AS9100 approved manufacturer for highly-complex machined and assembled aerospace components, as well as ISO 14001 certified. Our commitment is to continually deliver value through leveraging of cutting edge manufacturing technology, lean and quality excellence disciplines in an efficient 5S manufacturing environment.

Leading edge manufacturing  
and inspection technology







## Inspection

- Zeiss CMM with Calypso and Gear Pro Software measuring 40" X 40" X 30"
- Nikon CMM with Modus Software and Revo Probe System measuring 120" X 60" X 42"
- Several Mitutoyo CMM's with Geopack Software measuring 96" X 42" X 30"
- Off Line Programming from 3D models



## Quality Clinic

Our Quality Clinic is a centralized location where all non-conformances are reported and where our team of multi-disciplined associates gather to perform root cause analysis, develop effective corrective actions, utilizing mistake-proofing methodologies and disposition parts.

Manufacturing flight safety critical components for aircraft engine and dynamic applications requires a "Quality First" culture. Our leadership team ensures that our quality program is prevalent throughout our value stream from raw material to finished components and assemblies.

Our investment in quality transcends our accomplished quality team and includes latest technology gauging and equipment. Product and process integrity throughout our entire operation is our first priority.

## Engineering

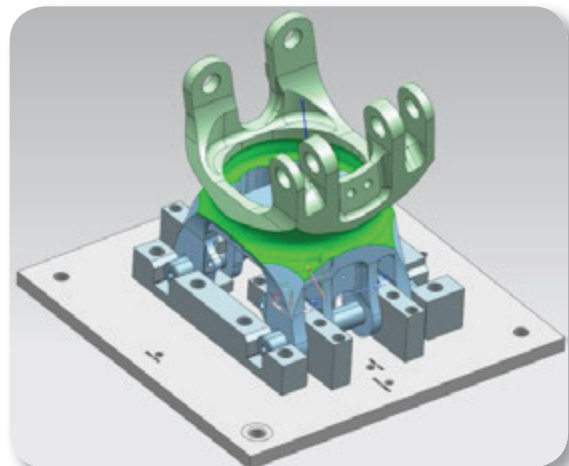
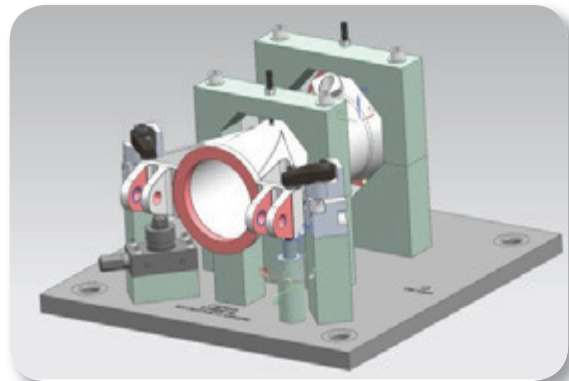
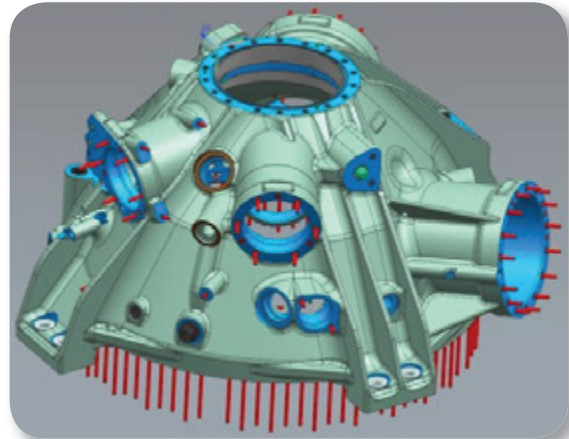
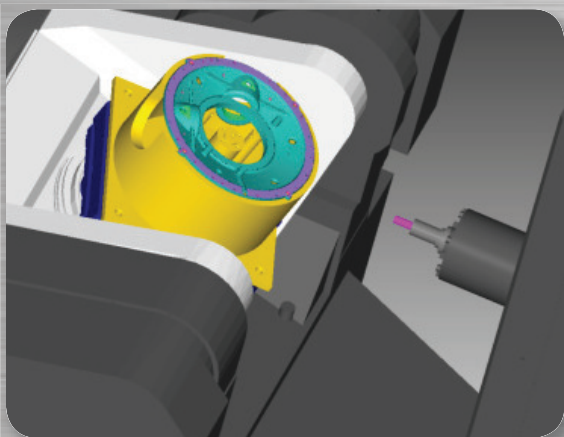
State-of-the-art CAD/CAM systems provide excellent quality and continued support of the manufacturing process.

Latest versions of:

- Siemens NX
- Vericut
- SolidWorks
- Catia
- MasterCam

Our CAD capabilities provide support for modeling of solid based part design, detailing, surface design, cutting tool/fixture design and drafting configurations.

CNC programming is accomplished through the use of the latest versions of Siemens NX CAM and MasterCam software providing reliable 2 through 5 axis tool path.



Machine simulation and CNC verification is performed using the latest version of Vericut software to eliminate potential turn backs and optimize tool paths before they reach the CNC Machine.



on technology in a temperature controlled  
t tolerance machining and assembly  
pace components.



**Multiple 5-Axis Milling Capability**



**Multiple 3 & 4 Axis  
Horizontal & Vertical Milling Capability**



**Gear Shaper / Splining**



**Horizontal & Vertical Turning Lathes**

## **CNC Machining**

At Senior Aerospace Connecticut we are continually investing in our manufacturing capability and technology. We evaluate the latest available technology, machine tools and processes available to provide

improved value for our customers and stakeholders.

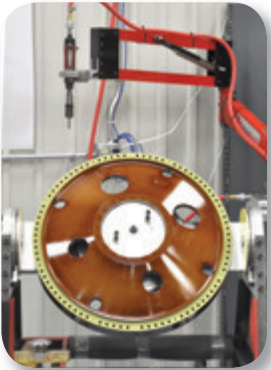




**In house tool design  
and manufacturing enables  
speed to market of new products.**



**Assembly**



**Hardware Kitting**



**Tool Presetting**



**Job Kitting**



**Gauge Kitting**



**Fixturing**

# Our Values

- To put the customer first
- To invest in our people and to treat each other with mutual respect and trust
- To operate with integrity and in an ethical manner
- To operate safely, protecting people and the environment
- To meet every commitment to ourselves and others
- To continually strive to do better in every aspect of our business

**An Array of magnesium,  
titanium, aluminum  
and stainless steel Components**



**Planetary Carriers: Up to 36" Cube**



**Magnesium Transmission / Gearbox  
Housing Assemblies: 6" - 36" cube**



**Shaft / Shaft Housings: Up to 36"**



**Miscellaneous Components**



## **Our Environment**

Senior Aerospace Connecticut recognizes the importance of protecting the environment and ensuring the safety of our employees in the workplace. In understanding the influence and impact of our activities, we commit to accomplishing Environmental, Health and Safety Excellence.





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