

Aerospace Welding

Aerospace welding has been developed as an efficient and effective solution to repair faulty components compared to the complex and costly exercise of manufacturing a replacement part.



THE Applus+ SOLUTION

Applus+ now offers Nadcap-certified aircraft **welding and casting repair services** to complement our non-destructive testing (NDT) services to the aerospace sector. During the NDT process, an identified fault can be repaired and re-inspected in a fraction of the time required to manufacture a new replacement component.

Our aerospace NDT services include radiography testing on the component in question and, where necessary, excavating porosity, shrinkage, or linear indications with the in-process verification of defect removal.

Applus+ performs repair welding on aircraft components in a temperature and humidity-controlled room, finishing with the blending of repair zone(s). The welding repair then undergoes a welding NDT process to ensure the component meets the requisite standards.

Target customers

Aerospace welding and repair services can be applied to a range of common aircraft materials including:

- Aluminium
- Titanium
- Nickel



- Cobalt
- Magnesium

Common applications for welding on aircraft components include:

- Aircraft engine castings
- Rocket fuel tubing
- Aircraft engine ducting systems

Key customer benefits

The benefits of partnering with Applus+ for aerospace welding and casting repairs include:

- Reduction of scrap components
- Increased product throughput
- Reduced costs
- Significant time savings in comparison to the time taken to manufacture new components
- All work fully certified