

With the wide range of thermal process technology available at Listemann AG together with complementary disciplines like TIG-welding, machining and non-destructive testing methods Listemann AG is a very attractive partner to you for repairing or manufacturing your turbine components.



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Foto: Airbus Aircraft Ltd.

**Thermal Processes for
the Aerospace Industry**

From prototype to series production

Aerospace



Listemann AG offers services in applying special processes to industrial components. The range of processes available is perfectly tailored to support your need in manufacturing aircraft components. Our profound knowledge in materials, the operation of very special equipment and our dedication to quality are your benefit. A co-operation with Listemann AG will keep your investments low and your profitability high.

Heat Treatment and Brazing

Thermal processing at its best

High precision, excellent reproducibility and a complete technical documentation are the main factors to successfully thermal treat material for the aerospace industry.

Our profound knowledge in treating high end nickel and cobalt base alloys, stainless steels and titanium alloys as well as certified processing technologies are your benefit when working together with Listemann. At Listemann AG we operate various vacuum furnaces with working space up to a diameter of 1500 mm and a height of 1800 mm.

Our certified processes include: High temperature brazing, vacuum hardening, age hardening, solution annealing, stress relief annealing and thermo-chemical heat treatment processes.



Electron Beam Welding

An excellent oxidation free joining technology

Since many years, the Electron Beam Welding is a well known member of the fusion welding processes in aerospace industry. It offers unconventional perspectives of material combination, part geometry, welding depth at very low thermal affection as well as low production cost.

The electron beam welding process is being performed under vacuum that results in oxidation free weld joints.

With our state of the art equipment we are able to weld components up to a diameter of 1000 mm and a length of 1500 mm. Our experienced engineering supports you during the planning phase until the final product design of your welding tasks making sure your quality expectations are being met.



Thermal Spraying

The method to enhance surface properties

In many cases the materials used in the aerospace industry have to withstand enormous loads and can only achieve their functionality after the application of a thermal sprayed coating on to exposed surfaces improving its wear and corrosion resistance, modifying its electrical properties, generating thermal barriers or changing its abrasive characteristics.

The deposition processes available at Listemann are Plasma Spraying, Wire and Powder Flame Spraying and Arc Wire Spraying. Coating systems we apply are Metals, Cermets, Abradables, Composites and Ceramics.

We operate two booths, each equipped with a manipulation robot able to handle components up to a diameter of 1000 mm, a length of 1500 mm and a weight of 500 kg.

