

# Brazing Aluminum with Induction



**Ambrell**<sup>®</sup>  
INDUCTION HEATING SOLUTIONS



*Experience the Excellence.*<sup>™</sup>

# A Smarter Brazing Solution

## Replacing Torch and Furnace Brazing with Induction Brazing

Torch brazing is the most common form of brazing today, but requires a skilled operator. However, many manufacturers are finding it harder to find experienced brazing operators and the open flame raises regulatory and safety concerns in manufacturing plants.

Furnace brazing is another widely used brazing technique. Manufacturing companies today are looking to improve production efficiency, reduce manufacturing costs and replace energy and space inefficient furnaces while improving product quality.

Induction brazing addresses the issues of torch and furnace brazing by removing the requirement for a skilled operator, by reducing energy costs and by decreasing the equipment footprint while implementing a lean manufacturing process for higher quality parts.

Whether you're concerned with throughput, part quality or manufacturing efficiency, induction heating is the ideal brazing method for your process.



## Will Induction Work for Me?

A hallmark of the Ambrell experience is complimentary laboratory testing. Ambrell's applications engineers will test your parts, determine the correct system based on your requirements and also determine the optimal coil design. While we're delighted to teach you about induction, we'll make implementing induction easy.



## Why Ambrell?

Ambrell has over 10,000 systems installed in over 50 countries, and many of them are brazing application installations.

Induction heating is an ideal method for brazing. It's our most common application; used daily in many different industries across the world.

We also offer exceptional customer service before and after the sale. Your specific brazing application will be analyzed and tested in the nearest Ambrell Applications Lab. There is no charge, and you will receive a system recommendation designed to deliver the best possible solution for your brazing requirements. Ambrell delivers the expertise, innovation and system quality to give your company a competitive edge.

### Induction brazing offers numerous benefits:

- Throughput: Induction generates heat only to the portion of the part needed for brazing
- Better efficiency
- Better quality with less part distortion
- Repeatability: After the coil and heating process are defined, you can count on a precise, consistent quality braze every time
- Easy Integration into a lean manufacturing process
- Safety: No open flame or hot furnace
- Small Footprint: Frees up valuable factory floor space





## About Ambrell

Founded in 1986, Ambrell is a global leader in the induction heating market renowned for our application and engineering expertise. Exceptional product quality and outstanding service and support are at the core of our commitment to provide the best customer experience in the industry.

We are headquartered in the United States with operations in the United Kingdom, France and the Netherlands. All products are engineered and made at our manufacturing facility in the United States, which is ISO 9001:2008-certified. Over the last three decades we have expanded our global reach through an extensive distribution network and today we have more than 10,000 systems installed in over 50 countries.



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