

INDUCTION BRAZING



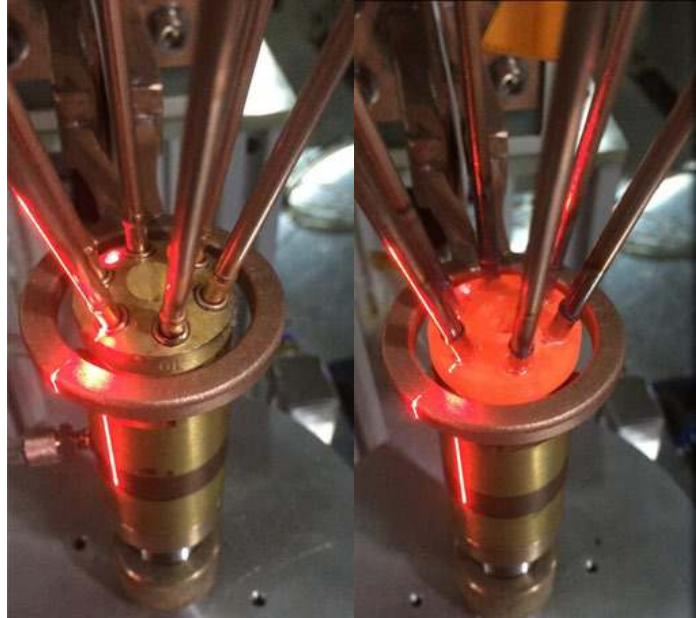
Induction brazing is a process in which two or more materials are joined together by a filler metal (Flux) that has a lower melting point than the base materials.

The filler is heated to its melting point by induction coil and then drawn into the base materials by capillary action.

Induction brazing is flexible and versatile. TESI has a range of Induction brazing solutions from compact, portable systems to automated production lines complete with handling robots.

There are several benefits to use induction heating for industrial brazing.

- Localised heating areas
- Better joint quality
- Reduced oxidation
- Reduced acid cleaning operation
- Faster heating cycles
- Consistent results
- Large volume production
- Energy consumption savings



TESI design and manufacture induction brazing systems for any brazing task. We supply systems in the electrotechnical industry to braze generator and transformer components. We supply the automotive industry where induction brazing is used to braze fuel pipes and brake parts. In aerospace induction is used to braze fan blades and hydraulic systems parts.

Induction brazing is also used in a variety of different sectors and components such as compressor's elements, chillers, air-conditioner's parts and more.

A typical induction brazing system consist of:

- Induction heating generator
- Induction coil
- Chiller
- Connecting cables/hoses

Power of generator and size and shape of coil are selected in accordance with application and productivity required by customer.

