

Induction Bonding Gasket to Nut

United Induction Heating Machine Limited

We are experienced in Induction Heating, induction heating machine, Induction Heating equipment. They are widely used in induction heating service, induction heat treatment, induction brazing, induction hardening, induction welding, induction forging, induction quenching, induction soldering, induction melting and induction surface treatment applications
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Objective To heat a steel sombrero nut prior to gasket bonding

Material • Steel sombrero-shaped nut approx. 2" (50.8mm) diameter, 2" (50.8mm) in height • gasket

Temperature 350 °F (176 °C)

Frequency 266 kHz

Equipment • Power of 6kW induction heating system, equipped with a remote workhead containing two 1.5µF capacitors for a total of 0.75µF

- An induction heating coil, designed and developed specifically for this application.

Process A multi-turn pancake coil is used to preheat the nut. It is then transported to the next station where it is pressed onto a gasket for bonding

Results/Benefits Induction heating provides:

- Even distribution of heat that carries through to the bonding station.
- Hands-free operation that involves no operator skill for manufacturing

Bonding-Gasket-to-Nut

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