

# Induction Brazing dental tools

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  
<http://www.uihm.com>

Objective To heat a steel tip and shank assembly to 1300°F (704°C) within 3 seconds for brazing with induction heating instead of torch brazing.

Material 0.1" (2.54mm) diameter steel tip & shank, 0.07" (1.78mm) diameter braze ring

Temperature 1300°F (704°C)

Frequency 278kHz

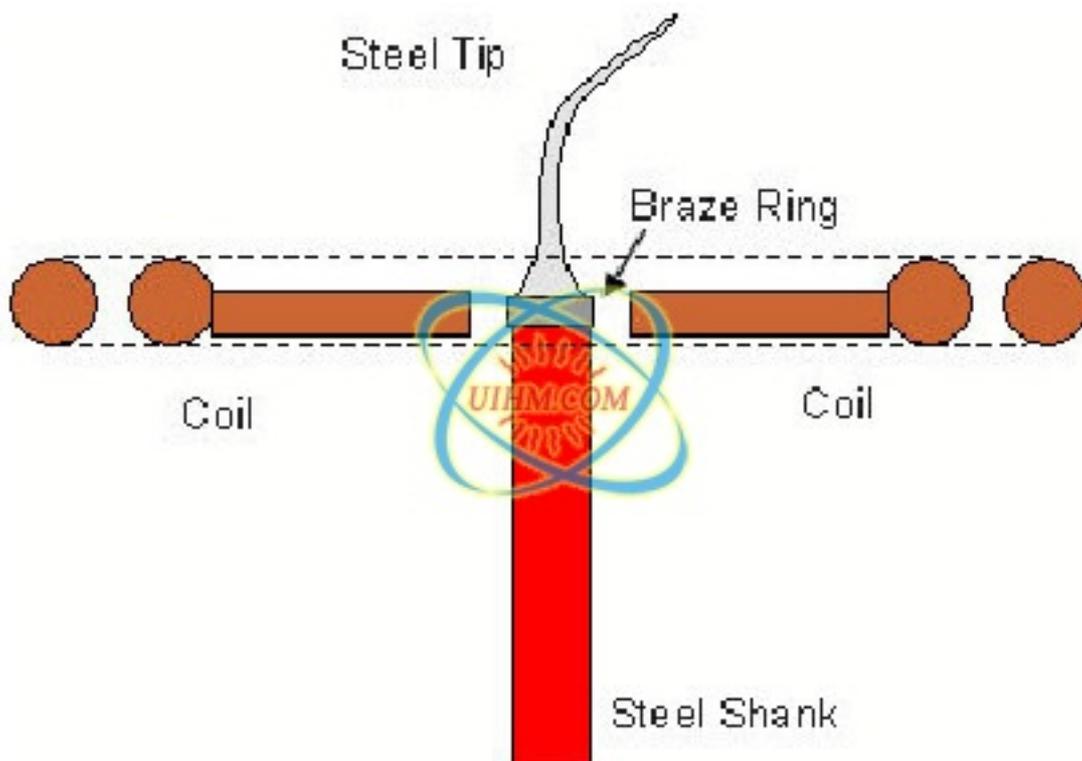
Equipment Power of 6KW induction heating system, remote heat station containing one 1.2 microfarad capacitor.

Process A two turn helical coil is used to braise the dental parts. The braze ring is placed at the joint area of the steel tip and shank.

Black flux is applied to the joint area. RF power is applied for 3 seconds to heat the parts to the established target temperature and the braze paste flows evenly and consistently.

Results/Benefits Induction heating provides:

- Fast, accurate, repeatable heat
- Ability to heat very small areas within precise production tolerances
- Better joint quality, reduced oxidation
- Increased production rates and reduced labor costs



service@uihm.com  
United Induction Heating Machine Limited