

Induction Shrink fitting pulley to insert bearing

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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Shrink fitting pulley to insert bearing Objective Heat aluminum pulley for insertion of an inner bearing for the automotive industry

Material Aluminum pulley 2.3" (60mm) OD x 1.6" (40mm) ID x 1" (27mm) high and inner bearing 0.7" (17.8mm) high x 1.6" (40mm) dia

Temperature 464 °F (240 °C)

Frequency 283 kHz

Equipment • Power of 6kW induction heating system, equipped with a remote workhead containing two 0.33μF capacitors for a total of 0.66μF

- An induction heating coil designed and developed specifically for this application. Process A three turn helical coil is used to heat the aluminum pulley. The pulley is heated to 464 °F (240 °C) in 20 seconds to expand the inner diameter and then the inner bearing is inserted to form the completed part.

Results/Benefits Induction heating provides:

- Defined and controlled heat pattern
 - Process easily integrated into automated system
 - Even distribution of heating
- Shrink fitting pulley to insert bearing

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