

Induction Hardening Pulleys

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 Heat cast iron pulleys to 1600°F (871.1°C) in order to achieve a hardness of 55 Rockwell C.

Material Ductile Iron Pulleys measuring 3 1/2" (88.9mm) OD and 2" (50.8mm) high.

Temperature 1600°F (871.1°C)

Frequency 164 kHz

Equipment • Power of 10 kW induction heating system equipped with a remote workhead containing eight (8) capacitors totaling 0.66 μF

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

Process A four turn helical coil is used to heat the cast iron pulley for 2 minutes and 45 seconds to reach the required 1600°F (871.1°C) Immediately following, the pulley is quenched in an agitated water bath to achieve the desired hardness.

Results/Benefits Induction heating provides:

- Increased production
- Repeatable, non-contact and energy efficient heat
- Precise heating

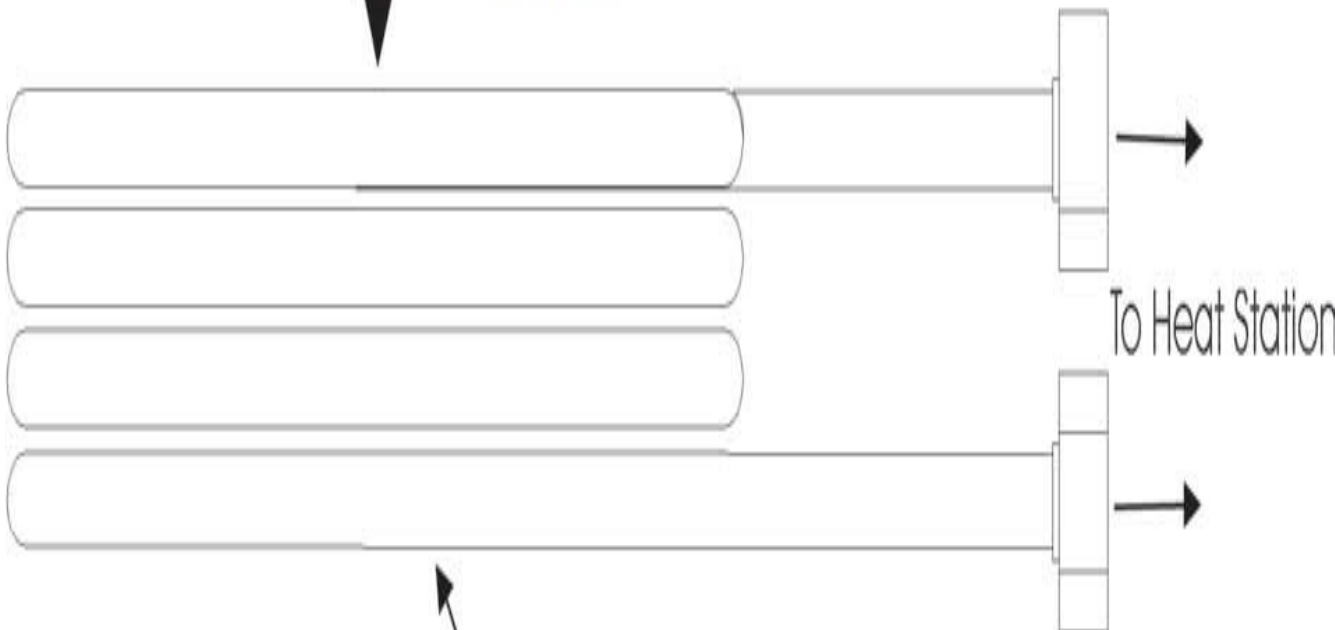
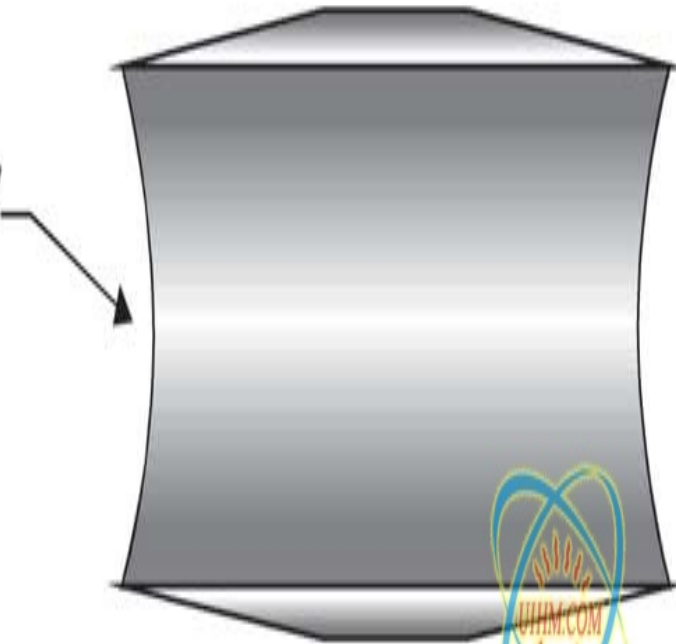
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Approximately 5"



Cast Iron Pulley



Four Turn Helical Coil