

# Induction Hot Forming Titanium Rod

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 titanium rod to 1700°F (926.7°C) within 60 seconds for hot forming.

**Material** Titanium rods, 1.25"(31.8mm) diameter, 5"(127mm) length

**Temperature** 1700°F (926.7°C)

**Frequency** 70 kHz

**Equipment** • Power of 60kW induction heating system, equipped with a remote workhead.

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

**Process** A specially designed thirteen-turn helical induction coil is used to heat the titanium rod to 1700°F (926.7°C). Two optical pyrometers are used to measure the temperature at the surface and center of the part. Both the surface and center of the titanium rod are heated to 1700°F (926.7°C) within 60 seconds.

**Results/Benefits** Induction heating provides:

- Improved production rates with minimal defects
- Improved mechanical properties
- Even distribution of heating

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