

**GROW CONTROL
POWER TECH PVT. LTD.**

We Provide Solutions....

AN ISO 9001:2015 COMPANY



INDUCTION HEATING MACHINE



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AND LIVING CONSUMER

GROW CONTROL is a research-based power electronics organization that blends technology, innovation, and engineering to transform concepts into world class products and solutions.

GROW CONTROL Induction Heating Machine is an advanced and versatile solution designed to provide efficient and controlled heating for various industrial applications. Utilizing indigenous technology, this machine employs high-frequency induction heating to rapidly and uniformly heat metal parts, promoting enhanced performance and quality in manufacturing processes. The induction heating process is energy-efficient and environmentally friendly, making it ideal for high-volume production and precision heating applications.

GROW CONTROL Induction Heating Machine provides a high-performance solution for various heating applications, ensuring reliability, precision, and efficiency. Utilizing **indigenous technology**, these machines are engineered to meet the demands of metal processing, automotive, aerospace, and electronics sectors, delivering exceptional performance and versatility.

Features

- **High-Frequency Induction Heating:** Rapidly and evenly heats metal components, ensuring effective thermal processing while maintaining dimensional accuracy.
- **Programmable Heating Profiles:** Offers customizable heating profiles tailored to different materials and specific application requirements, enhancing operational flexibility.
- **User-Friendly Interface:** Equipped with a digital control panel that allows for easy monitoring and adjustment of temperature settings and heating times.
- **Compact and Ergonomic Design:** Designed for easy integration into existing production lines, optimizing space utilization in the workshop.
- **Safety Mechanisms:** Integrated protection features including over-temperature, over-current, and fault detection to ensure safe operation during heating.
- **Energy Efficiency:** High efficiency in energy consumption, leading to reduced operational costs and minimal environmental impact.



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- **EMI/EMC Compliance:** Meets MIL-STD-461 and EN 55022 standards, ensuring minimal electromagnetic interference.

Key Advantages

1. **Indigenous Technology:**

Developed and manufactured in India, ensuring compatibility with local industry standards and accessible technical support.

2. **Versatile Applications:**

Suitable for a wide range of heating applications across industries including automotive, aerospace, and electronics.

3. **High Reliability:**

Engineered for consistent performance under demanding operational conditions, ensuring reliability in various applications.

4. **Environmentally Friendly:**

Produces minimal emissions compared to traditional heating methods, making it a greener choice for manufacturing.

5. **Comprehensive Customization:**

GROW CONTROL offers tailored solutions to meet specific operational requirements, ensuring optimal functionality for every application.

Applications

1. **Metal Processing:**

Ideal for heating metals for forging, hardening, and annealing processes.

2. **Automotive Industry:**

Supports the heating of automotive components, such as gears and shafts, for improved mechanical properties.

3. **Aerospace Components:**

Used for heating critical aerospace components to enhance durability and performance.

4. **Electronics Manufacturing:**

Suitable for soldering and joining electronic components, ensuring reliable connections.

5. **Heat Treatment:**

Effective in various heat treatment applications, including tempering and stress relieving of metals.

Customization Options

GROW CONTROL provides a variety of customization options for the Induction Heating Machine to accommodate specific application requirements:

- **Custom Power Ratings** to suit specific heating needs
- **Enhanced Control Features** for specific materials and heating profiles
- **Integrated Monitoring Systems** for real-time performance feedback
- **Modular Configurations for Increased Capacity**
- **Communication Interfaces** for enhanced integration with production systems

Our engineering team collaborates with clients to deliver tailored solutions that precisely fit their operational needs, ensuring optimal performance and compatibility.

Why Choose **GROW CONTROL**?

- **Indigenous Expertise:** Tailored to meet Indian industry standards with local support for customization and maintenance.
 - **Reliable and Consistent Performance:** Ensures precise and repeatable heating essential for critical applications.
 - **Low Maintenance Requirements:** Durable design reduces wear and tear, minimizing downtime and maintenance costs.
 - **Energy Efficient and Cost-Effective:** Low energy losses lead to cost savings and enhanced operational efficiency.
- Comprehensive Customer Support:** From initial design consultation to installation and ongoing support, **GROW CONTROL** offers a full range of services.

Certifications

- **ISO 9001:2015** – Quality Management Systems



Model no.	GC153 IHM	GC203 IHM	GC303 IHM	GC603 IHM	GC663 IHM	GC1003 IHM	GC1203 IHM	GC1603 IHM	GC2003 IHM	GC2503 IHM
Input	415V±10%, 3-Ph, 50Hz									
Output (KW)	15	20	30	60	66	100	120	160	200	250
Power Factor	0.8									
Power Control	Manual & Auto									
Frequency (kHz)	400 to 1000									
Output power factor	Near unity with PLL frequency tuning									

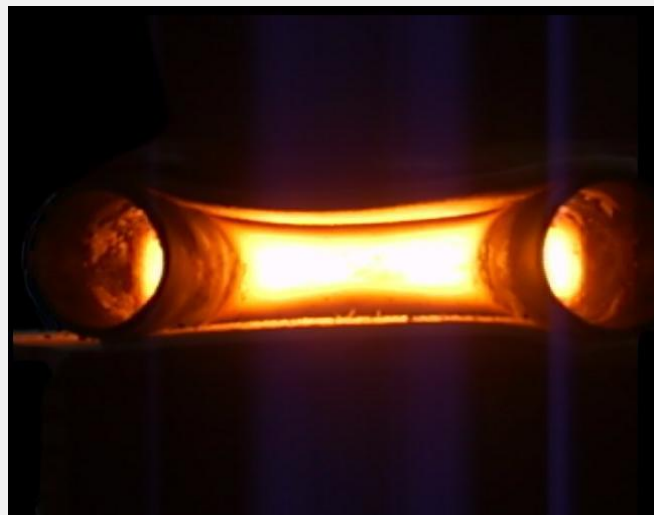
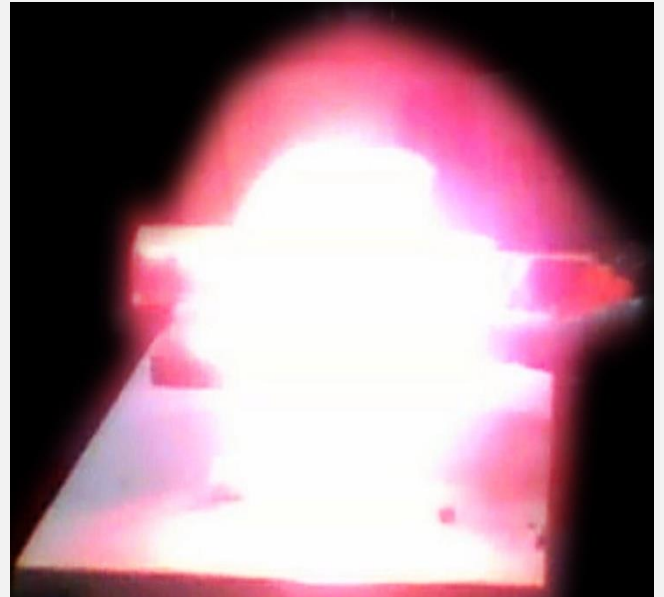
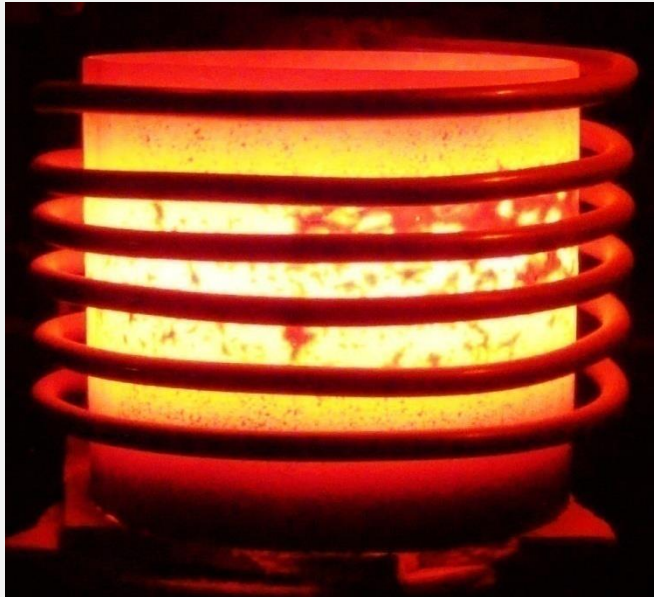


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आम हाउस कोन्ट्रोल

Some of the jobs being heated by our induction heaters.





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AMS E-BOARD CONTROL UNIT

Some of the jobs being heated by our induction heaters.

