



INDUCTION STUD & BOLT HEATING MACHINE



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

We Provide Solutions....

GROW CONTROL Induction Bolt/Stud Heating Machine is very versatile and effective heating method for heating bolts of heavy machinery like turbines and very large size pumps. Induction heating effectively expands the bolts and facilitates easy tightening of bolts. The same principle can be used for loosening the bolts also. We have supplied several bolt heating induction heaters for various industries including NTPC.

GROW CONTROL Induction Bolt/Stud Heating Machine is a cutting-edge solution designed to provide efficient and controlled heating of bolts, studs, and similar fasteners. Utilizing indigenous technology, this machine is ideal for applications requiring precise heating to improve performance in assembly, disassembly, and maintenance processes. The induction heating process ensures rapid, uniform heating, reducing the risk of damage and enhancing the effectiveness of fastener applications.

GROW CONTROL Induction Bolt/Stud 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 automotive, aerospace, and heavy machinery sectors, delivering exceptional performance and versatility

Features

- IGBT based resonant Induction Inverter
- Highly efficient and reliable
- Handheld light weight MF transformer online temperature measurement
- Quick change induction job coils
- PLL frequency tracking for better power coupling
- Timer / Temperature feedback operation

Key Advantages

1. **Indigenous Technology:**



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AND LIFETIME SUPPORT!!!

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

2. **High Reliability:**

Engineered for stable and consistent performance, ensuring reliable heating under demanding operational conditions.

3. **Comprehensive Customization:**

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

Applications

1. **Heavy Machinery Maintenance:**

Provides efficient heating for large bolts and studs, facilitating easier removal and installation during maintenance.

2. **Construction:**

Effective for pre-heating structural fasteners to improve assembly quality and reduce the risk of failure.

3. **Repair and Retrofitting:**

Useful for heating and loosening corroded or rusted fasteners in repair and retrofitting applications.

Customization Options

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

- **Custom Power Ratings** to suit specific heating needs
- **Enhanced Control Features** for specific materials and fastener sizes
- **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.



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100% LIQUID CONTROLS

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

Technical Specification

Model no	GC603ISBHM
Capacity (KW)	50
Input Voltage	415V±10%, 3-ph, 50Hz
Input power (KVA)	60
Frequency (KHz)	10 to 20
Input power factor	0.8
Power control	Manual or Auto
Power factor	Near unity with PLL frequency tuning

