





GROW CONTROL
POWER TECH PVT. LTD.

We Provide Solutions....

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 shrink fitting is a process used to create a tight and precise fit between two components, typically involving the heating of one part using induction heat. This causes the part to expand, allowing it to be fitted onto another part. Once the heated part cools, it contracts, providing a secure and lasting fit. This method is widely used in industries like automotive, manufacturing, and engineering.

Modern Induction Heating systems provides speed, accuracy and repeatability necessary to produce quality shrink-fitted joints. With a properly designed work coil, induction heating can uniformly heat the bore hole, producing repeatable expansion. With the remote heat station capability of solid state induction heating power supplies, shrink fitting can be done on the production line.

With 30+ years of expertise and a commitment to indigenous technology, **GROW CONTROL** delivers rugged, reliable, and customizable power supply systems built to meet the stringent requirements of Indian industries, defense, and research sectors.

Features

Precise and Controlled Heating: Induction heating ensures uniform temperature control for a reliable fit.

Quick and Efficient: Rapid heating and cooling cycles reduce downtime and increase productivity.

Adaptable: Suitable for a wide range of sizes, shapes, and materials.

Key Advantages

1. Indigenous Technology:

Completely designed and manufactured in India, **GROW CONTROL** Shrink Fitting deliver solutions optimized for domestic industrial, research, and defense needs.



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2. **Advanced Protection:**

Built-in safety mechanisms, including over-voltage, over-current, and thermal protection, ensure reliable performance in demanding applications.

3. **Customizable Configurations:**

GROW CONTROL offers flexible options in terms of voltage, current range, and form factor, ensuring that each unit meets the unique requirements of its intended application.

Applications

1. **Turbine blades mounting and dismounting**
2. **Fitting of rotors over shafts**
3. **Compressor shells over the motor stator**
4. **Axle housing extensions into axle beam bodies**

Customization Options

GROW CONTROL offers a range of customization options to meet the unique power requirements of diverse industrial and defense applications:

- **Output Voltage & Current Range Adjustments**
- **Cooling System Customization**
- **Advanced Monitoring and Control Interfaces**
- **Extended Protection Features**

Our engineering team collaborates with clients to deliver tailored solutions suited to their operational, environmental, and performance needs.

Why Choose **GROW CONTROL**?

- **Indigenous Design:** Backed by over three decades of power electronics expertise, **GROW CONTROL** Shrink Fitting meet high standards of reliability and performance.
- **Efficiency & Stability:** High efficiency and low ripple output ensure stable power delivery, critical for sensitive and precision applications in industrial, defense, and research sectors.



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- **Safety and Reliability:** Designed with comprehensive protection mechanisms, these power supplies offer safe and dependable performance under demanding conditions.
- **Customer Support:** From customization and installation to support and maintenance, **GROW CONTROL** ensures seamless integration and optimal performance for all clients.

Certifications

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

Technical Specification

Model no.	GC2003ISF
Input Voltage	415V, 3phase, 50Hz or User specified voltages
Power	Up to 200kW
Power Factor	0.8
Power Control	Output power can be controlled using "Manual / Auto" mode
Inverter Power Factor	Near unity with PLL frequency tuning



OUR CLIENTS



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