



GROW CONTROL
POWER TECH PVT. LTD.

We Provide Solutions....

AN ISO 9001:2015 COMPANY



INDUCTION LEVITATION MELTER



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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 Levitation Melter (ILM) is an advanced thermal processing technology designed for melting materials in a controlled, non-contact environment. Utilizing electromagnetic induction, the ILM generates high-frequency currents that heat conductive materials through resistive heating, allowing for precise temperature control and rapid melting rates.

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

Non-Contact Heating: The ILM employs a levitation mechanism to float the material above the induction coil, eliminating contamination and enabling processing of reactive materials.

Efficiency: High energy efficiency is achieved through direct heating, reducing energy consumption compared to traditional melting methods.

Temperature Control: Integrated sensors and feedback systems provide real-time monitoring and adjustments, ensuring uniform temperature distribution and optimal melting conditions.

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

Key Advantages

1. **Indigenous Technology:**

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

2. **Advanced Protection:**

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

3. **Customizable Configurations:**



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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. Fabrication and recycling of advanced materials
2. Research and development in metallurgical processes
3. Production of high-purity materials for specialized applications.
4. The ILM represents a significant innovation in melting technology, combining efficiency, precision, and versatility for modern manufacturing needs.

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** ILM 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.
- **Safety and Reliability:** Designed with comprehensive protection mechanisms, these power supplies offer safe and dependable performance under demanding conditions.
- **Ruggedized for Harsh Environments:** Compliant with military standards, **GROW CONTROL** ILM are built to operate reliably in extreme environmental conditions.
- **Customer Support:** From customization and installation to support and maintenance, **GROW CONTROL** ensures seamless integration and optimal performance for all clients.



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Certifications

- **EN 55022** – EMI Compliance
- **ISO 9001:2015** – Quality Management Systems

Technical Specification

Model no.	GC753ILM
Type	Induction Levitation Melter
Capacity (KW)	75
Frequency (kHz)	20-120
Input power supply	415+5%-10%, 3 ph, 50 Hz



OUR CLIENTS



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