



GROW CONTROL
POWER TECH PVT. LTD.

We Provide Solutions....

AN ISO 9001:2015 COMPANY



INDUCTION BOTTOM POURING MACHINE



GROW CONTROL
POWER TECH PVT. LTD.

We Provide Solutions....

GROW CONTROL Induction Bottom Pouring Machine is a reliable and efficient device designed for various industrial and laboratory applications.

GROW CONTROL Induction Bottom pouring is a process primarily used in metal casting, where molten metal is poured from the bottom of a crucible or furnace. This method offers superior control over the pouring process, minimizes turbulence, and produces high-quality castings.

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

Controlled Pouring: Molten metal is directed from the bottom, reducing the risk of turbulence.

Precise Flow: Ensures even and accurate distribution of metal into molds.

Improved Metal Quality: Helps in maintaining the purity of metal by minimizing contamination.

Key Advantages

1. **Indigenous Technology:**

Completely designed and manufactured in India, **GROW CONTROL** Bottom Pouring deliver solutions optimized for 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:**

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

Applications

1. **Foundries:** Used in industries producing castings for automotive, aerospace, and machinery.



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

We Provide Solutions....

2. Steel Industry: Essential for pouring steel ingots and other metal forms.
3. Non-ferrous Metals: Widely used in the production of aluminum, copper, and other non-ferrous alloys.

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** Bottom Pouring meet high standards of reliability and performance.
- **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



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

We Provide Solutions....

मे ब्लाउड्स पॉवर कंट्रोल

Technical Specification

Model no.	GC125kWIHM
Input Power	440 VAC, 3 Phase, 50Hz, 200A Mac
Max. Operating Power Capacity	Up to 125kW
Max. Operating Frequency Range	8 to 18kHz
Induction Crucible	
Outer Diameter	350mm
Wall thickness	25mm
Internal Diameter	300mm
Overall Height	575mm
Inner Depth	425mm
Crucible Material	Graphite Bonded Silicon Carbide Crucible
Chemical composition of Induction crucible	
Combination of	(C + SiC + Al ₂ O ₃ + Si + Na ₂ B ₄ O ₆)
Carbon (C)	18-22% liquid amorphous black
Silicon Carbide (SiC)	40-50% Grain / Fines Grey
Alumina (Al ₂ O ₃)	3-5% Grain / Fines Brown
Silicon (Si)	4-5% Fine Black
Borax (Na ₂ B ₄ O ₆)	3-5% fines whitish
Graphite	20-30% flaky black
Stopper Rod:	Ceramic Alumina rod



OUR CLIENTS



P-5/1/A, Road No. 13, IDA Nacharam, Hyderabad - 500 076, Telangana, India.

Ph : +91- 40 -27175591, Fax : +91-40-27175386

✉ gcptpltd@gmail.com | www.growcontrols.in