



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

We Provide Solutions....

**AN ISO 9001:2015 COMPANY**



**VACUUM GRAINING MACHINE**



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**GROW CONTROL** has developed special purpose induction heating systems for melting applications of metals based on various metals and industrial applications. Induction melting is a process where melting is melted into liquid form in an induction furnace crucible.

**GROW CONTROL** VGM is a state-of-the-art vacuum granulation machine designed specifically for processing gold and silver. This machine is engineered to produce high-quality granules with precise control over size, shape, and consistency.

### Features

**Vacuum Environment:** Maintains a consistent vacuum level for efficient and dust-free processing.

**Multi-Functional:** Suitable for processing various gold and silver alloys, including scrap and other materials.

**User-Friendly Interface:** Easy-to-use control panel with real-time monitoring and data logging.

### Applications:

**Refining and Recycling:** Ideal for refining and recycling gold and silver scrap and other materials.

**Jewellery Production:** Suitable for producing high-quality granules for jewellery manufacturing.

**Metallurgy:** Can be used for various metallurgical applications, including alloy production and metal powder processing.

### Customization Options

**GROW CONTROL** offers a variety of customization options for the Vacuum Granulation Machine to accommodate specific application requirements:

- **Custom Power and Voltage Ratings**
- **Enhanced Control Features** for specific laser types (e.g., pulse modulation, power ramping)
- **Integrated Monitoring Systems** for real-time feedback



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- **Optimized Cooling Solutions** (Air or liquid)
- **Modular Configurations for Scalable Power Ratings**
- **Communication Interfaces** for enhanced integration with other 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 power delivery essential for critical laser 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.
- **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



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### **Technical Specification**

<b>Model No</b>	<b>GC303VGM</b>
<b>Scope of work</b>	Supply, Installation, successful Commissioning, Testing, Stabilization and handing over of Vacuum Graining/Granulation Machine for Precious Metals and Base Metals.
<b>Capacity</b>	12 Kg/hr. silver grains (minimum) output.
<b>Rated kW</b>	30kW
<b>Ambient Temperature</b>	<40°C
<b>Metals to be melted</b>	Pure Gold, Gold Alloy, Carat Gold, Pure Silver, Silver Alloy, Multi Alloy (Silver, Copper, Zinc and Nickel) etc.
<b>Dimensions of output granules/shots</b>	Round in shape, diameter 2-3 mm
<b>Induction Generator</b>	Microprocessor controlled indirect induction heating system.
<b>Induction Frequency</b>	Low frequency induction generation 3.5KHz to 6.5KHz
<b>Crucible Volume</b>	Minimum 3400 CCM
<b>Temperature Controller</b>	Dual temp controller with fuzzy logic or better to control temperature up-to 1500 degree Celsius with indication.



## OUR CLIENTS



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