



Thermal
Technologies

VACUUM FURNACES

INDUCTION MELTING AND CASTING

HHV Vacuum Induction Melting (VIM) and Casting furnaces are specially designed to meet laboratory and production requirement.

These furnaces are very useful to prepare high purity ferrous nickel and cobalt based for melting and casting.

High cost material purification and special alloys can be economically produced on this compact vacuum induction melting and casting furnaces.



FEATURES

- Water cooled Rotatable co-axial feed-through for tilting and pouring
- Specially designed induction heater for effective heating with optimum power
- Rotatable shutter to minimize the heat loss from melt Water cooled copper moulds
- Special exchangeable crucible for melting different metals
- High vacuum pumping system to achieve base pressure in the range of 10⁻⁵ mbar and to handle gas load during melting

SPECIFICATIONS

Parameters	Horizontal	Vertical
Chamber size (mm)	500mm X 500mm X 600mm 600mm X 800mm x 600mm Custom sizes	700mm X 700mm 1800mm X 1900mm 1500mm X 1100mm 2500mm X 3000mm Custom sizes
Material	Non-Magnetic stainless steel	Non-Magnetic stainless steel
Melt Capacity(Kg)	1 / 2 / 5 / 15 / 25 / 50 / 250	1 / 2 / 5 / 15 / 25 / 50 / 250
Temperature (Deg. C)	Upto 2000°C	Upto 2000°C
Vacuum (mbar)	10 ⁻⁵	10 ⁻⁵
Cooling	By inert gas	By inert gas



APPLICATION

- Aero engine turbine blades
- Turbo chargers
- To produce designer alloys

Over the last 5 decades of its expertise in vacuum science and technology, HHV Thermal Technologies has become an international supplier of high quality vacuum furnaces in the world. Its furnaces are designed with NADCAP standards and are certified for CE. We are an ISO 9000, 14000 and 45000 certified, and has an advanced research and manufacturing program for metallurgy and special purpose vacuum furnaces.

HHV THERMAL TECHNOLOGIES PVT LTD

Site No. 17, Phase 1, Peenya Industrial Area, Bengaluru 560058, Karnataka, India. Phone: +91-80-41931000
 Fax : +91-80-28394874 | Email: info@hhvthermaltech.com | Website: www.hhvthermaltech.com