

AM - 133

VACUUM ARC MELTING FURNACE

Turn-key system for research and low volume production:

- Metallic and Non-metallic buttons
- Material Densification and purification
- Powder Melting
- Arc Vacuum Casting
- Annealing
- Compound Synthesis
- Experimental alloys
- Thermal treatment

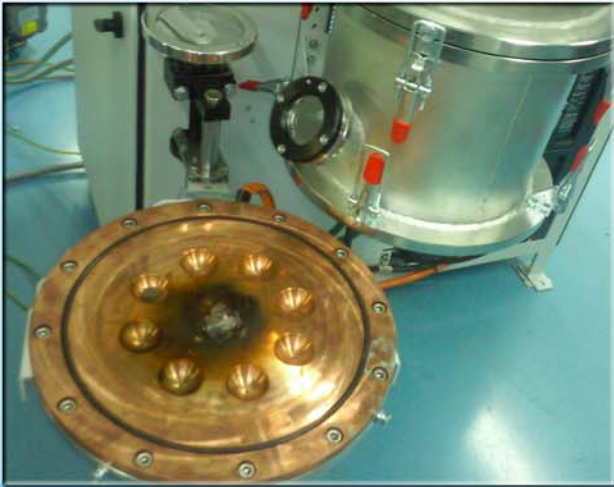


Benefits:

- Stainless steel water-cooled cylindrical type processing chamber
- Easy removable bottom hearth for fast loading / unloading
- Several hearts geometries available
- Two viewports with removable shield
- Dens filter for operator eye protection
- Chamber illumination
- Lifting mechanism for loading of 3D samples
- Water-cooled electrode
- Partial pressure regulation fully automated
- Chamber vacuum / flushing process step
- Reactive and inert gas controlled atmosphere
- Inert gas controlled purge
- High Frequency Arc Starter as standard
- Safety water switches

Technical Data:

Temperature:	Over 3500°C
Hearth:	42.4 cm O.D. water-cooled copper
Stinger Tip:	12.7 mm Diameter Tungsten Rod
Chamber:	stainless steel, water-cooled
Dimensions:	315 mm inside diameter, 308 mm Height
Ultimate pressure:	less than 1×10^{-2} Torr
Range of arc current:	50 – 650 A
Number of gases	3
Max gas flow	20 slm

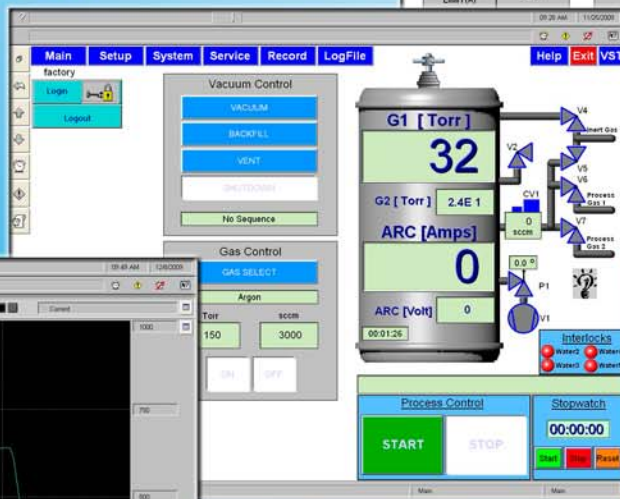
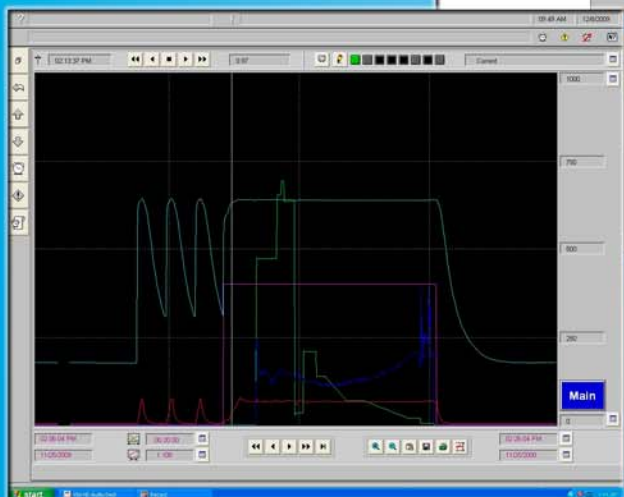
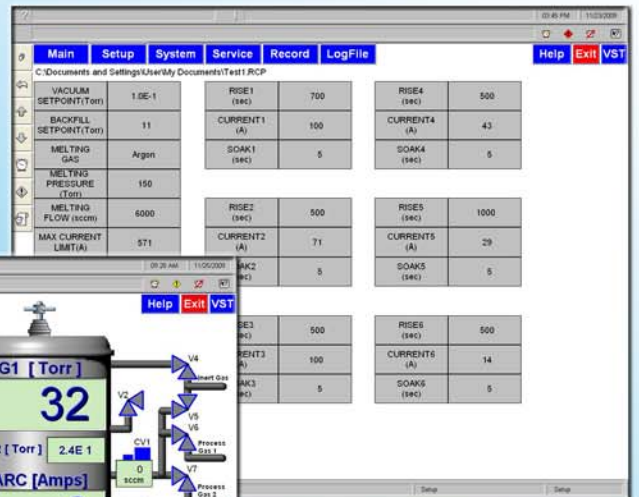


Automation:

- PC/PLC control with fully automated processes
- Touch Screen Control panel
- Programmable power and pressure ramping
- Manual / Auto / Service control
- Three Login permission levels – Operator, Manager, Supervisor
- Historical data logger with graphical Online / Offline review

Optionally:

- Turbo or Diffusion High Vacuum Pump
- Customized Hearth
- Downstream pressure control mode
- Controlled partial pressure of inlet gases



Contact



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