



MASTER MELT SERIES

VACUUM INDUCTION MELTING & CASTING FURNACES

BATCH LOADED OPERATIONS

PROVEN DESIGNS FOR:

- Vacuum ingot casting
- Vacuum net shape casting
- Vacuum roll-over casting
- Vacuum distillation

Melt Sizes:

5, 15, 30, 50, 100, 200, 300, 500, 1000 & 2000 lbs.

Ingot and net shape casting for production or R&D of ferrous, non-ferrous, super alloys, precious metals, magnetic metals, battery alloys and other metals.

Allow for Future Accessories with PV/T Modular Design

BASIC & OPTIONAL ACCESSORIES (Partial list)

Melt Chamber Accessories

- One and two door models
- Polished chamber interior
- Custom ports
- Mold well
- Melt furnace induction power feeds
 - Tilt pour coax type
 - Flexible lead type

Over-melt Accessories

- Melt immersion thermocouples and samplers, manual or power positioned
- Optical pyrometer melt temperature indication and automatic melt control
- Swivel bridge breakers
- Crucible insulated covers
- Crucible vapor condensers
- Fine additions chargers
- Bulk charger canister type, hopper gravity or vibratory feed types

Mold Equipment

- Stationary and adjustable height mold tables
- Power driven turntables and linear mold carts
- Induction or resistance mold heaters

Vacuum System Options

- Mechanical vacuum and booster pumps
- Diffusion or ejector pumps
- Pump port screen
- Easy access pipeline vacuum filter box
- Vacuum valves

Cooling Water Systems

- Furnace integral water controls, factory installed
- Closed loop heat rejection systems

Platforms

- Operator and over-melt access
- Ingot Charger Access
- Maintenance access

Advanced PV/T Controls

- Manual or automatic melting and casting
- Programmable or teachable pouring and mold positioning motion controls
- PC's, PLC's, HMI's, data archiving, modem
- Inert gas controls for static or dynamic purging

Induction Equipment

- Induction power supplies, furnaces and accessories