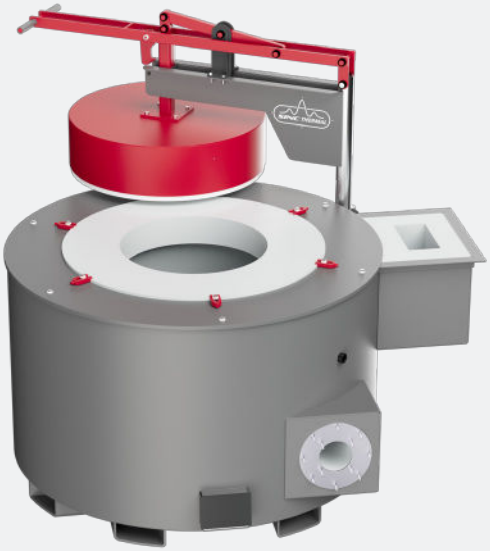
Crucible Furnace



Whether used as a melting furnace, holding furnace or both, crucibles are a perfect solution for cost effectiveness and ease of implementation. Perfect for job shops producing different alloys in relatively smaller batches, crucible furnaces are the simplest and most flexible holding furnaces for both large and small melt rooms and allow for quick alloy changes.

- Gas fired units offer faster melting rates than electric units and are suitable for higher melting point alloys such as copper based.
- Electric furnaces offer better metal quality and silent operation
- Excellent temperature control from the use of high turndown ratios and simple to maintain, package burners.
- Electric furnaces use multiple elements wired in parallel to avoid shut down if one element lost.
- Electric furnaces are available with SCR control for optimum temperature control
- Smallest installation footprint allows for close installation at point of use
- Suitable for Al alloys, Zn alloys, Mg alloys and lead

SINC Thermal offers a complete range of melting and holding furnaces along with accessory and peripheral equipment for all alloys and processes. All furnaces and equipment are proudly built in Missouri, USA.

SINC THERMAL

Crucible Furnace

Style & Configuration

Stationary, tilting and mobile versions available.

Melt, melt & hold or hold; up to 4,000 lbs of aluminum and 18,000 lbs magnesium.

Hand ladle, auto ladle, dosing/pump or direct-pour output methods are available.

Lids are available in several types and styles:

- All furnaces are delivered as standard with a manual lift off lid
- Split “Butterfly” lid: allowing 1/2, 1/3 or 2/3 of crucible-opening access.
- Full-hinged cover/lid.
- Lift-and-swing-aside cover.
- Dome cover: allowing for ingot charging above the crucible top.

Covers are available as manual or pneumatically operated versions depending on furnace size and configuration.

Operational Considerations:

- Type of charge material and mix.
- Volume demand of molten metal every hour.
- Transfer rates and ladle size.
- Holding temperature requirements.
- Alloy to be melted, held and cast; aluminum, zinc, magnesium.
- Degassing requirements prior to casting.
- Central melt or “point-of-use” melting.
- Working hours: 8x5 days shift up to 24/7 continuous.
- Burners and power-connection-points orientation and placement.
- Emergency run-out port orientation and placement.
- Manual or pneumatically-operated functions.

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