Lindberg Silicon Carbide Element Furnace Specifications

- Stack Charged Aluminum Melting Furnace
- Aluminum Dry Hearth Two-Chamber Melting and Holding Furnace
- Wet Bath Reverberatory Furnace

- Gravity-Feed Launder Systems

- Gas-Fired Aluminum Melting/Holding Furnace

- Valca- Autoladle
- Electric Valca Autoladle Crucible Preheat Station

- Stationary Crucible/Pot Furnace
- Tilting Crucible/Pot Furnace

Support
- Contact Sales
- Lindberg Brochures
- MPH Brochures

Service / Parts
- Get a Quote

Silicon Carbide Element Furnace Specifications

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Lindberg Silicon Carbide Element Furnace Specifications

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Specifications and Product Information is subject to change without notice.

Lindberg/MPH - An SPX Brand

- **Mailing Address:**
  - PO Box 131
  - 3827 Riverside Road
  - Riverside, MI 49084 USA
- **Phone:** (269) 849-2700
- **Fax:** (269) 849-3021

lindbergmph@spx.com
- Coil-Type Element Heating Lids
- MeltRite
- Transfer Ladles
- Compact Iron Pot Melting Furnace
- Aluminum Reverberatory Furnaces
  - Stack Charged Aluminum Melting Furnace
  - Aluminum Dry Hearth Two-Chamber Melting and Holding Furnace
  - Wet Bath Reverberatory Furnace
- Launder Systems
  - Gravity-Feed Launder Systems
- Gas-Fired Aluminum Melting/Holding Furnace
- Stack Charged Aluminum Melting Furnace
- Aluminum Dry Hearth Two-Chamber Melting and Holding Furnace
- Wet Bath Reverberatory Furnace
- Gas-Fired Aluminum Melting/Holding Furnace
  - Gravity-Feed Launder Systems

- Valca- Autoladle
- Electric Valca Autoladle Crucible Preheat Station
- Valca- Autoladle
- Electric Valca Autoladle Crucible Preheat Station
- Stacked Charged Aluminum Melting Furnace
- Aluminum Dry Hearth Two-Chamber Melting and Holding Furnace
- Wet Bath Reverberatory Furnace

- Stationary Crucible/Pot Furnace
- Tilting Crucible/Pot Furnace
- Stationary Crucible/Pot Furnace
- Tilting Crucible/Pot Furnace

Contact Sales
Lindberg Brochures
MPH Brochures
Service / Parts
Get a Quote

Lindberg
Heat-Treat
Industrial Furnaces

Lindberg Heat Treat Furnaces - Process-Proven Heat Treat Equipment in Gas or Electric.

Lindberg has a long-standing reputation as a single-source supplier for the heat treating industry, from initial design to construction, services and genuine factory parts for heat treat industrial furnaces. For quality, value, reliability and technical support, the choice is simple. Call the Lindberg Heat Treating Team today at (800) 873-4468.

**Heat Treat Processes**

- Aging
- Annealing
- Brazing
- Carbonitriding
- Carburizing
- Drying
- Hardening
- Normalizing
- Nitriding
- Nitrocarburizing
- Sintering
- Soldering
- Solution Treating
- Stress Relieving

**Heat Treat Products**

- Integral Quench Furnace
- Bell Furnaces
- Pacemaker Furnaces
- Box Furnaces
- Cast Link
- Forge Slot Furnace
- Gantry Line Furnaces
- Atmosphere Generators
- Mesh Belt Conveyor Furnaces
- Ovens
- Pit Furnaces
- Roller Hearth Furnace
- Rotary Drum Furnace
- Rotary Hearth Furnace
Lindberg engineers and manufactures the industry's most extensive line of thermal processing equipment and industrial furnaces.

The company has more than 75,000 industrial furnace installations worldwide and the equipment is backed by a full range of customer support services and the most extensive replacement parts inventory in the industry.

Lindberg has the metallurgical know-how, experience and technology to help you make the most efficient industrial furnace system choice for your heat treating needs. You'll find fuel-fired and electric- powered equipment to choose from.

We design our industrial furnace systems to use the most energy efficient components, use low NO2 combustion systems and equip our systems with afterburners or catalytic converters where process emissions may be harmful to the environment. This means that you can expect that your Lindberg industrial furnace system is well on its way to complying with local environmental regulations.

**About Lindberg Industrial Furnaces**

Our industrial furnace products range in size and complexity up to 3000°F Kilns over 120 feet long!

Download the [Lindberg Heat Treat Solutions](http://www.lindbergmph.com/) brochure.

---

**MPH Non Ferrous Melting Industrial Furnaces**

*World class non-ferrous melting and aluminum melting technology . . . and products that make it work for you.*

MPH, one of the world's largest manufacturers of non-ferrous furnaces, offers complete product/system design and manufacturing services.

Our world-class engineering, research and manufacturing facilities enable us to respond to virtually any non-ferrous molten metal handling request with speed and efficiency.
**Non Ferrous Processes**

- Melt metal
- Hold molten metal
- Transport molten metal

**Non Ferrous Melting Products**

- Immersion Zinc Melting Furnaces
- Aluminum Holding Furnaces
- Coil-Type Element Heating Lids
- MeltRite
- Transfer Ladies
- Compact® Iron Pot Melting Furnace
- Aluminum Reverberatory Furnaces
- Stack Melting Furnaces
- Launder Systems
- Gas-Fired Aluminum Melting / Holding Furnaces
- Valca Autoladles®
- Crucible / Pot Melting Furnaces
- Custom Solutions

Our design facilities include state-of-the-art Computer Aided Design (CAD) equipment interfaced with CAM process equipment which allows us to custom-design products and do complete product/system redesign.

We offer complete turnkey service if you need it -- everything from plant layout and design to engineering and finished product installation.

Times change and your product needs may change with them. We offer complete building and relining services.

- [View our MPH catalog](#)
- [Find out how you can boost the efficiency of your gas-fired aluminum reverberatory furnace](#)

**Rebuilds, Relines, Parts and Service**

Nothing is more frustrating than having to shut down an entire operation for the need of a part or two. When you order your parts from MPH, you always get quick response and fast turn-around--often within 24 hours.

- [Read more about our Remanufacturing and Relining Services](#)
- [MPH Relines, Parts and Service Information](#)
Specifications and Product Information is subject to change without notice.

Lindberg/MPH - An SPX Brand

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  - Riverside, MI 49084 USA
- Phone: (269) 849-2700
- Fax: (269) 849-3021

lindbergmph@spx.com
Box Oven

Companion Draw Furnace

Drop Bottom Oven

Cortherm Element

Cyclone Electric

Cyclone Gas-Fired

Cyclone Retort Electric

Cyclone Retort Gas-Fired

HOMOCARB

HOMOCARB Nitriding

HOMO Tempering

Quench Tank for Pit Furnaces

Rod Overbend Element

Steam HOMO

Pit Furnace Companion Washer

Roller Hearth Furnace

Rotary Drum Furnace

Rotary Hearth Furnace

Shaker Hearth Furnace

PaceCar

Horizontal Vacuum

Companion Draw Furnace

Vacuum Integral Quench Furnace

Top Loading Vertical Vacuum Furnace

Gas-Fired Immersion Tube Zinc Melting Furnace

Electric Immersion Holding/Melting/Holding Furnaces

Holimesy Aluminum Holding Furnace

Holimesy Low-Energy Electric Holding Furnace/Laundry System
Compact Iron Pot Melting Furnace

Stack Charged Aluminum Melting Furnace

Aluminum Dry Hearth Two-Chamber Melting and Holding Furnace

Wet Bath Reverberatory Furnace

Gravity-Feed Launder Systems

Gas-Fired Aluminum Melting/Holding Furnace

Valca- Autoladle

Electric Valca Autoladle Crucible Preheat Station

Stationary Crucible/Pot Furnace

Tilting Crucible/Pot Furnace

Contact Sales

Lindberg Brochures

MPH Brochures

Lindberg/MPH Service Center

P.O. Box 131, 3827 Riverside Road, Riverside, MI 49084 USA

Main Phone: 269-849-2700

Main Fax: 269-849-3021

Service: 269-849-5238

Service Fax: 269-849-0401

Email: Lindberg@spx.com
Times change and your product needs change with them... To help keep products and systems completely up to date, we offer complete rebuilding and relining services - not just for our own products, but for any industrial furnaces. Rebuild services include converting furnaces from electric to gas, and vice versa, or from single to dual sources of energy. We offer relining services for a wide variety of equipment. At your plant or in our factory, we'll do the job quickly and efficiently.

PARTS AND SERVICE
Nothing is more frustrating than having to shut down an entire operation for the need of a part or two. Replacement parts, including heating elements, thermocouples, refractories, control instruments, and more. When you order your parts from Lindberg you always get quick response and fast turn-around...often within 24 hours.

We offer troubleshooting services, starting with identifying possible areas of concern. Problems in temperature uniformity or control, or inefficient equipment can all cause production bottlenecks, create quality problems, and reduce profits. We can help identify the problems and provide appropriate long-term solutions.

Need work done on your existing furnace? Quick response is the key to our service program. Whether you need on-site personnel training after product/system installation, general troubleshooting or perhaps an on-site service call. Our Service department is ready, willing and able to help get your equipment up and running again.

TURNKEY SERVICE
We also offer complete turnkey service if desired - everything from plant layout and design to engineering and finished product installation. And, once we've installed the product we'll test to make sure it's problem-free. If possible, we'll ship the product as a complete, pre-tested unit so it's delivered ready to run.
● Phone: (269) 849-2700
● Fax: (269) 849-3021

lindbergmph@spx.com
Box Furnaces by Lindberg

- Stack Charged Aluminum Melting Furnace
- Aluminum Dry Hearth Two-Chamber Melting and Holding Furnace
- Wet Bath Reverberatory Furnace
- Gravity-Feed Launder Systems
- Gas-Fired Aluminum Melting/Holding Furnace
- Valca- Autoladle
- Electric Valca Autoladle Crucible Preheat Station
- Stationary Crucible/Pot Furnace
- Tilting Crucible/Pot Furnace

Support

- Contact Sales
- Lindberg Brochures
- MPH Brochures

Service / Parts

Get a Quote

Box Furnaces

Car Bottom Furnace

Innovative car bottom furnace design. Advanced, lightweight modular construction utilizing ceramic fiber modules (Moldatherm® or equivalent brand) to achieve large-scale economies in a number of important areas. Temperature range to 1800°F.

Corrtherm Element Electric Box Furnace

The rugged Lindberg Corrtherm electric box furnace offers a unique combination of high performance and low maintenance. Temperature range to 1850°F.
Cyclone® Furnace

The rapid, uniform heating of the Cyclone® furnace has been proven in thousands of installations. Available in either electric powered or gas-fired models, the Cyclone is very productive for two reasons. First, the cycle time is minimized by the rapid heating capability. Second, very heavy, dense loads can be uniformly treated, maximizing your throughput in a very compact, efficient package. The work is brought rapidly to temperature by the unique recirculating convection heating system that forces pressurized air through the load at high velocity. Temperature uniformity is typically ±10°F or better; if specific fixturing is used, ±5°F can be attained.

Gas-Fired Semi-Muffle Box Furnace

Lindberg gas-fired, semi-muffle, box furnaces have proven themselves for years to withstand the most rigorous handling and heaviest of operating schedules. These furnaces are fired from underneath the hearth by means of a series of gas burners equipped with individual gas pilots. Hearths made of heavy fire-brick slab to prevent any direct flame infringement on the work. Gas burners are staggered from side to side of the furnace and are spaced as such to ensure maximum temperature uniformity throughout the work chamber.

Investment Cast Burn Out Furnace

Lindberg's investment casting mold preheat and burn-out furnace is designed for maximum efficiency and ensures cleaner shells with less smoke because of its unique automatic air injection system. Operates at maximum heat-up rates and minimum fuel costs. Temperature range to 2000°F (2400°F optional).

Polymer Burn Off Furnace

The polymer burnoff furnace system provides a simple, cost-effective way to clean tooling and other components that are coated with polymers and other organic compounds during the manufacturing process. The furnace vaporizes the residual polymer, cleansing the tooling for continued use. Temperature range up to 1250°F.
Gas-Fired Radiant Tube Box Furnace

For efficient, economical performance, the Lindberg Gas-Fired Radiant Tube Box Furnace offers a unique combination of high performance and low maintenance. It is designed for both light or heavy work loads. The furnace can be supplied for air atmosphere or endothermic, exothermic, or nitrogen atmospheres. Automatic gas-air flame curtain burner is standard equipment on all models. Temperature range to 2000°F.

Rod Overbend (RO) Electric Furnace

The Lindberg Rod Overbend (RO) electric box furnace gives you flexible, efficient performance in a variety of heat-treating applications. The fast heating rate, heavy load capability, and reliable operation help you achieve fast turnaround and high productivity. The furnace is very simple and economical to operate, and is available in a wide range of sizes. Temperature range to 2000°F.

Silicon Carbide Element Furnace

The Lindberg SC (silicon carbide element) box is designed to deliver precision high-temperature uniformity required in the treating of high alloy and high-speed tool steels. Temperature range to 2500°F.

Sinter-All® Furnace

The Lindberg Sinter-All® hydrogen-atmosphere, electric retort box furnace is the ideal furnace for cost effective sintering and infiltrating powder metal components. The furnace’s control system incorporates numerous interlocks and alarm modes for safe operation. A microprocessor based programmable controller is the heart of the system. Silicon carbide resistor elements positioned above and below the retort provide heat. The furnace is engineered to provide precise metallurgic results on a consistent basis. Temperature range to 2100°F.
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lindbergmph@spx.com
Lindberg Silicon Carbide Element Furnace

- Companion Draw Furnace
- Drop Bottom Oven
- Corrtherm Element
- Cyclone Electric
- Cyclone Gas-Fired
- Cyclone Retort Electric
- Cyclone Retort Gas-Fired
- HOMOCARB
- HOMOCARB Nitriding
- HOMO Tempering
- Quench Tank for Pit Furnaces
- Rod Overbend Element
- Steam HOMO
- Pit Furnace Companion Washer

- Roller Hearth Furnace
- Rotary Drum Furnace
- Rotary Hearth Furnace
- Shaker Hearth Furnace
- PaceCar

- Horizontal Vacuum
- Companion Draw Furnace
- Vacuum Integral Quench Furnace
- Top Loading Vertical Vacuum Furnace

- Walking Beam Furnace
- Pacemaker Companion Washer

- Gas-Fired Immersion Tube Zinc Melting Furnace
- Electric Immersion Holding/Melting/Holding Furnaces

- Holimesy Aluminum Holding Furnace
- Holimesy Low-Energy Electric Holding Furnace/Launder System

- Coil-Type Element Heating Lids
- MeltRite
- Transfer Ladies
- Compact Iron Pot Melting Furnace
Silicon Carbide Element Furnace

The Lindberg SC (silicon carbide element) box is designed to deliver precision high-temperature uniformity required in the treating of high alloy and high-speed tool steels. Temperature range to 2500°F.

Features / Benefits

- Standard endothermic atmosphere system
- Low surface watt release for extended life
- Heating element circuit power transformer with tap switches to compensate for element aging

Options

- Carbon control with oxygen probe
- Nitrogen-methanol atmosphere system
- Gas flowmeters for dissociated ammonia or exothermic atmospheres
- Automatic nitrogen purge system
- Control and recorder options

Applications
Lindberg Silicon Carbide Element Furnace

- Annealing (nickel alloys)
- Brazing
- Hardening

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lindbergmph@spx.com
Lindberg Pacemaker-SL Integral Quench Furnace

- Vacuum Integral Quench Furnace
- Top Loading Vertical Vacuum Furnace

- Gas-Fired Immersion Tube Zinc Melting Furnace
- Electric Immersion Holding/Melting/Holding Furnaces

- Holimesy Aluminum Holding Furnace
- Holimesy Low-Energy Electric Holding Furnace/Launder System

- Stack Charged Aluminum Melting Furnace
- Aluminum Dry Hearth Two-Chamber Melting and Holding Furnace
- Wet Bath Reverberatory Furnace

- Gravity-Feed Launder Systems

- Gas-Fired Aluminum Melting/Holding Furnace

- Valca- Autoladle
- Electric Valca Autoladle Crucible Preheat Station

- Stationary Crucible/Pot Furnace
- Tilting Crucible/Pot Furnace
Pacemaker-SL Integral Quench Furnace

The Pacemaker® SL is an electrically powered, integral quench furnace capable of temperatures up to 1925°F. It shares the features of its big brother the Pacemaker all with a compact footprint and the low price that allows you to heat-treat many tool steels with a quick payback.

Features / Benefits

- Low price lets you heat treat with quick payback
- 12"x24"x12" (WxLxH) workspace handles loads to 120 lbs. net.
- 1925°F maximum temperature (1800°F with combustible atmosphere) enables treatment of many tool steel grades
- Available with gas or electric heat
- Standard inert atmosphere system uses nitrogen or argon for clean heat treating
- Compact 4'x7' footprint lets you put it where you need it
- Pushbutton operation of doors and quench elevator offers easy operation
- Roller rail hearth gives smooth manual load transfers
- Lightweight ceramic block insulation offers fast heating and low energy consumption
- Simple design comes pre-piped and wired for 230V/3Ph/60Hz service and requires no pit

Options
Lindberg Pacemaker-SL Integral Quench Furnace

- Self-contained fluid drip (HOMOCARB®) fluid atmosphere system
- Systems for endothermic or nitrogen-methanol atmospheres
- Programmable temperature and atmosphere controls
- Carbon control with oxygen probe
- Ammonia system for carbonitriding
- Quench Guard® oil monitoring system
- Chart recorder
- Loading cart
- Companion draw furnace and washer
- Step-down transformer 480V-230V

**Applications**

- Annealing
- Carbonitriding
- Carburizing
- Hardening
- Normalizing
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