



DESIGN & ENGINEERING  
FABRICATION & INSTALLATION  
PARTS & SERVICES  
MODERNIZATION



PROVIDING QUALITY FURNACE EQUIPMENT SINCE 1945

Since 1945, Olson Industries has been recognized as a leading supplier of industrial furnace and process heat-treating equipment to manufacturers throughout the world.

Our applications engineers work closely with customers to design and fabricate furnace equipment employing the latest in combustion technology and fuel efficiency. Olson equipment sets the standard in reliability, bringing customers improved productivity, exceptional thermal performance and lower overall operating costs.

### **Modernization and Upgrades**

Olson Industries also provides modernization and upgrade services for existing thermal process lines. Our engineering staff can recommend retrofits and upgrades to improve energy efficiency, reduce maintenance and downtime, or provide automated control and performance monitoring to improve quality and lower the cost of operation.



## **Heat Treating Furnaces**

Throughout the United States and Worldwide, customers have come to rely on the experts at Olson Industries to handle their critical heat treating and thermal processing requirements.

Olson Industries has over 64 years of continuous service handling virtually every heat treating and thermal processing application. From the simple car furnace to the most complex automated processing lines, our design personnel have hands on knowledge and experience designing and repairing equipment used in a broad spectrum of applications.

### **Efficiency and On-time Performance**

At Olson, we've concentrated our efforts on becoming the best, most efficient supplier of heat treating furnaces and thermal process lines.

Our design engineering, customer support, fabrication and assembly shops are in the same building, allowing us the oversight of every job – start to finish. And because we concentrate solely on furnaces systems, we offer solutions and economies that cannot be duplicated within large engineering company environments.

Olson applications specialists and customer support personnel have extensive experience in the equipment and industries we serve. This helps our engineering staff provide the most innovative, creative and energy efficient solution for your application.







## Specialty Furnaces

Throughout our history, Olson Industries has designed and built furnace systems for specialized applications in many industries. Today, our furnaces are working in thermal oxidizers, ladle preheaters, vertical pit tempering applications, strip coating and drying applications and hot-dip galvanizing lines.

We also have extensive design and fabrication experience in the following areas:

- Mould drying ovens.
- Oil and water quenching systems.
- Material handling equipment.
- Furnace cars – new and rebuilt.
- Sintering furnaces.
- Fuel-fired kilns.
- Slot forge furnaces.

## Automation and Control

Olson provides a wide assortment of furnace automation and control systems designed to improve overall efficiency, reduce operational costs and improve process control.

Our Process Automation Department offers complete automation services including PLC control systems, customized software, product tracking, control panels, HMI interfaces and burner monitoring panels. Unlike many suppliers, Olson designs and manufactures process control systems in-house. Our experienced technicians mount and test all panels and sub-assemblies, and test all terminal strip wiring to assure continuity.

### *Designed for your needs...*

Our applications engineers work closely with customers to assure that automation and control fits your individual application. We provide fully integrated design services, including system architecture, custom software, start-up and training services.

## Turnkey Projects and Expert Installation Support

From sophisticated turnkey project to the simplest modernization and repair project, every Olson job is processed through our specialized project management system. Every job is provided a qualified, in-house project manager, providing one point of contact from contract award to start-up.

Most projects are completely fabricated, piped and assembled in our shop. Olson personnel also handle all electrical assembly and wiring requirements, and all practical testing is conducted before the job every ships from our plant.

Pre-shipment breakdown is handled to reduce in-field erection and installation time, keeping installation costs to a minimum.



Systems can be designed to control individual furnace functions, or for multiple furnace line applications and complete shop overview systems.

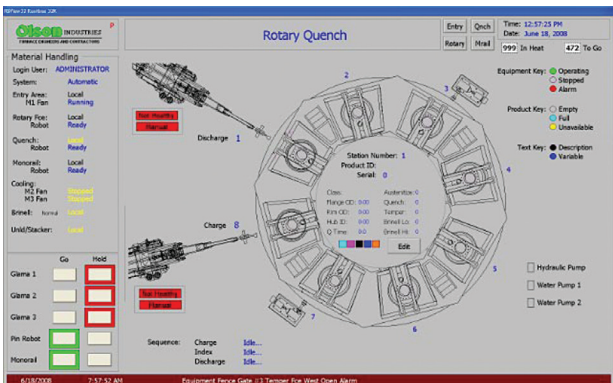
Olson also offers specialized automated control systems to work in conjunction with pulse fired systems. **Olson Flex Zone®** provides automated burner selection and multi-zone sequencing ideally matched to the loading profile in the furnace.

### Service and Repair

Customers trust Olson Industries to offer one-stop modernization and rebuild services. Our experienced personnel provide both minor and complete retrofit and modernization services designed to improve overall performance, fuel efficiency and reduce maintenance and downtime.

#### Modernization services include:

- Engineering and redesign.
- New furnace linings using advanced materials.
- Advanced control systems, including PLC- based systems with HMI and computer-based interfaces.
- Burner assemblies and updated firing systems.
- Wear items and seal replacements.
- Roller hearth drive systems.
- Heat recovery systems, including regenerative types.
- Rehabilitation or replacement of furnace internals, including load supports.
- Installation services.



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1945







Olson manufacturing facility.

## Parts and Service

Olson offers a full complement of spare parts services to customers, regardless of original furnace design. Our experienced staff and manufacturing department is able design and manufacture cast parts and other fabricated assemblies for virtually any furnace configuration.

*In addition, we also offer:*

- New and replacement controls.
- Flame safety equipment including UV detectors.
- Control valves and operators.
- Furnace rolls.
- Radiant tubes.
- Curb castings.
- Alloy internal castings.
- Bearings.
- Burners and port blocks.
- New controllers and repair kits.
- PLC parts.
- Gear boxes, chain, sprockets, clutches, pumps, fan impellers.
- Fabricated steel and alloy parts.
- Expedited and emergency repair services.

## Energy-Saving Services

Olson Industries provides many additional services to improve the efficiency of your heat treating or thermal process equipment, including:

- Combustion system tuning.
- Compliance and certification surveys to meet government, military or other statutory specifications, including temperature compliance readings.
- Test thermocouples and multipoint certified uniformity tests.
- Equipment inspection, including “crawl through” analysis with written recommendations to improve performance and reduce maintenance.
- Training services.
- Dry-out and full testing of new or retrofitted furnaces.



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