



# Furnace Engineering

*Leaders in Heat Processing Solutions*

## Industrial Batch Ovens



### Applications:

Drying, Curing, Preheating, Heat treatment, Baking, Annealing, Ageing, Homogenising, Electronic burning, Conditioning, Stability testing, Sterilising, Warm storing, Bonding, Shrinking.

Furnace Engineering designs and manufactures high quality, process specific industrial ovens.

Typically air recirculating oven designs are used up to 600°C, ranging from small lab batch ovens up to large continuous ovens. Designs are available to suit flammable emissions to ensure safe operation, as with the curing of painted products.

Dealing direct with the manufacturer, means you can have a design specifically tailored to your process and budgetary requirements, whilst ensuring compliance with local safety codes. With a service team available for nationwide support in Australia and using highly trained agents overseas, Furnace Engineering provides ongoing support.



Stress Relief



Heat Treatment



Solution Heat Treatment



Soldering & Brazing



### Melbourne

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2008 Governor of Victoria  
Export Awards  
Commendee

[www.furnace.com.au](http://www.furnace.com.au)

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**Air Distribution**

High performance air distribution ensures heating rates which are both rapid and controlled.

Our adjustable louvre system allows air distribution to be tuned to suit your product geometry.



**Energy Flexibility**

Heating your oven using electricity, LPG or natural gas, Furnace Engineering has a solution for you.

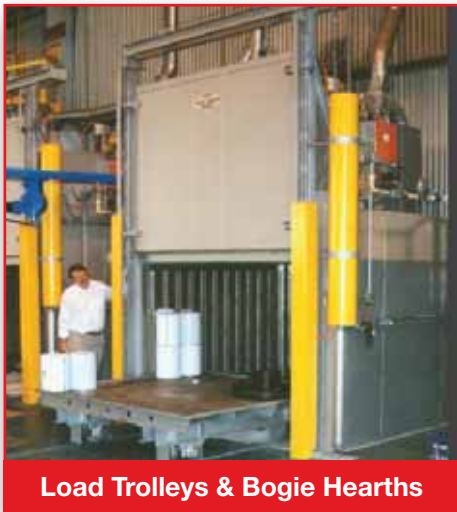
Direct, indirect and low NOx burner options are available.



**Door Systems**

Various door systems, including:

- Vertical rising via either pneumatic cylinder or electro-mechanical action
- Swing-aside manual doors
- Bogie-integrated doors with either manual or electro-mechanical action

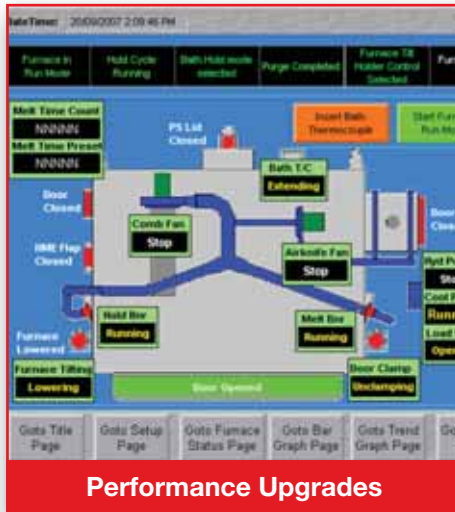


**Load Trolleys & Bogie Hearths**

We can offer several different arrangements for loading.

These loading mechanisms range from a simple manual trolley system, up to electrically driven bogie hearths.

Conveyor-style continuous ovens are also available to suit high production volumes.



**Performance Upgrades**

A wide variety of upgrades exist to enhance oven performance and reduce operating costs.

Upgrades include:

- Heat recovery
- Variable speed fan control
- Cascade temperature control with load thermocouples
- Pressure control
- Programmable touch screen interfaces



**Instrumentation**

A variety of control systems are available depending on the process requirements.

Instrumentation ranges from simple single set-point digital controllers, up to full PLC control with load thermocouples, data logging through a dedicated digital chart recorder, and SCADA PC-based software interface.

**Furnace Engineering is an Australian company with over 40 years of heat processing experience. For assistance with your application, please contact our experienced sales staff.**



**Furnace Engineering**  
[www.furnace.com.au](http://www.furnace.com.au)