



# Furnace Engineering

*Leaders in Heat Processing Solutions*

## Bogie Hearth Furnaces & Ovens



### Applications:

Ageing, Annealing, Homogenising, Heat Treatment, Drying, Curing, Preheating, Bonding

Furnace Engineering has designed & locally manufactured customer specific bogie hearth furnaces & ovens for the Australian market for over 40 years.

Additionally, through our technical partners, Nabertherm & Despatch, we can offer a range of standard & customised designs.

The bogie hearth design is typically used where:

- Heavy loads exist
- Easy access to the load is required

We are capable of offering:

- Air circulating units up to 900°C
- Radiant furnaces up to 1200°C



**Bogie Hearth Ovens**



**Bogie Hearth Furnaces**



### Melbourne

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**Heat Sources**

A variety of heat sources are available, including

- Electricity
- Natural Gas
- LPG
- Oil



**Door Systems**

Various door systems, including:

- Vertical rising via either pneumatic, hydraulic or electro-mechanical action
- Swing-aside manual door
- Bogie-integrated door with either manual or automated movement



**Heat Recovery**

Reduce your carbon footprint, and operating costs with a variety of systems designed to recover heat from the exhaust stream. This energy can be used to enhance the efficiency of the oven/furnace itself or downstream processes.



**Bogie Mechanism**

A number of different bogie mechanism arrangements are available depending on the load weight & operating temperature.

These mechanisms range from a simple manual pull out system with labyrinth seal, up to a more elaborate electrically driven bogie with pneumatic positive sealing system.



**Automation**

Automated bogie movements optimise your manufacturing process.

Automated loading and unloading of your bogie is typically used where:

- High volumes exist
- 24/7 operation
- Manual handling is difficult



**Instrumentation**

A variety of control systems are available depending on the process requirements. Additional functionality includes programmed start up/shutdown and cascade temperature control based on load thermocouples.

Instrumentation ranges from simple single set-point digital controllers, up to full PLC control with load thermocouples and data logging.

**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)