



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



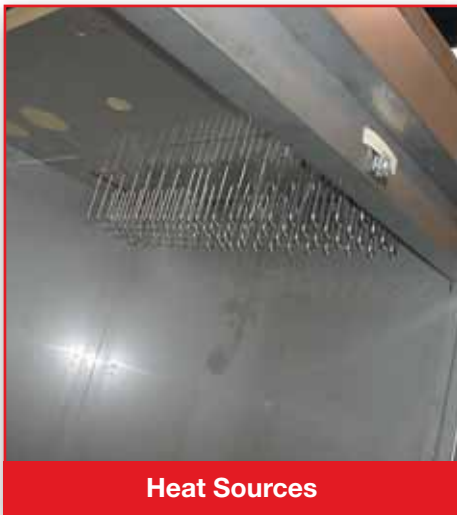
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Heat Sources

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.



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