

ENERGY EFFICIENT HEAT TREATING SOLUTIONS

Pyradia has developed highly reliable, energy efficient and cost-effective car bottom furnaces for intense and continuous use. These car bottom furnaces incorporate high grade insulation, finest control systems and rugged construction. The car bottom series is ideal for the heat treatment of aluminum, steel and stainless steel alloys, and can reach a maximum temperature of 2200°F (1200°C). As with all our ovens and furnaces, this model provides an excellent temperature uniformity. The parts are loaded onto a car on wheels thus facilitating the charging of heavy parts. This model is available with a guillotine door configuration mounted on vertical tracks.



Car Bottom Furnace Project

- HIGHLY ENERGY EFFICIENT
- LIFE DURABILITY
- EXTRA AIR-TIGHT FOR OPTIMUM UNIFORMITY
- LOWEST MAINTENANCE COST
- UP TO 2200°F (1200°C)

The **pulse firing technology** can be integrated as an option and will allow you to achieve greater temperature uniformity, process control and energy savings. This high temperature industrial furnace is perfect for heavy products as it can bear loads of up to 150 tons. The car bottom furnace is also an ideal choice for the heat treatment of long length parts such as tubing, bars, slabs and ingots.

INDUSTRIAL OVENS AND FURNACES CAR BOTTOM



Pyradia's car bottom furnace is suitable for a wide range of applications such as step forging, austempering, hardening and solution treating. Pyradia custom designs and builds the car bottom furnace to meet your specific requirements and needs. The furnace meets the following equipment quality and safety standards: ASTM, SAE, AMS, CQI-9 and NFPA.

INDUSTRIES



Aerospace



Manufacturing



Automotive



Oil and gas



Industrial

PROCESSES

- Step forging
- Ageing
- Annealing
- Austempering
- Hardening
- Normalizing
- Preheating
- Solution treating
- Stress relieving
- Tempering

FEATURES

- Up to 150 metric ton capacity
- Uniformity of +/- 10°F if requested
- Gas or electric
- Furnace shell made of thick steel plates, welded to structural units
- Cold cars
- PLC controls (AB and Siemens)
- Ceramic fibre insulation

OPTIONS

- DEMAG electromechanical driven car
- Pulse firing technology
- Self-recuperative burners
- Various burner configurations available
- Various levels of automation available
- Data acquisition system
- Exhaust stack
- Pressure control
- Maintenance platforms & ladders
- Air baffles
- High velocity fans
- Variable-speed exhaust system

