

Pit line

Our static pit furnaces, equipped with electric heating and a ventilated lid, are designed for the stretching and/or annealing of cutting blades or specialized components. These furnaces feature a programmed heating and cooling cycle, ensuring precise temperature control throughout the process. The controlled nitrogen atmosphere inside the furnace helps maintain the required conditions for optimal results, with internal temperature control providing accuracy and consistency in the heat treatment process.

Application: Hardening, Cementing, Carbonitriding, and Annealing

We have developed a broad range of equipment tailored to several industrial sectors, with a particular expertise in adapting quenching, carburizing, carbonitriding, and annealing technologies to meet specific application needs.

Our vertical pit furnaces and horizontal movable muffle furnaces are utilized across various industries. These systems serve applications ranging from the quenching of long shafts to the annealing of anchor kernels in 0 Armco iron, as well as stress relieving of blades for metal cutting.

With over 200 units supplied globally, we are proud to offer innovative, customized solutions for each sector. Our equipment features controlled atmospheres, including vacuum, nitrogen, or vacuum and Formengas, ensuring the precise conditions required for optimal results.

Further Development: Annealing

Our annealing furnaces have undergone significant development, proving to be versatile in a variety of applications, from annealing silver plates and golden threads to processing laser-cut blades and performing traditional heat treatments.

These furnaces offer both electric and combustion heating options, with an inner muffle made from highly heat-resistant materials to ensure durability and performance. With temperature capabilities ranging from up to 600°C to 950°C, these systems are designed to meet the diverse needs of modern manufacturing processes.

Technical Specifications

We offer a variety of furnace models, including:

- ▶ **Pit Furnaces:** These furnaces feature a usable diameter of 1,200 x 3,000mm and are designed for heat treatment or annealing. They can accommodate loads of up to 3,000kg.
 - ▶ **Horizontal Movable Muffle Furnaces:** These furnaces have dimensions up to 1,600 x 3,000mm and are equipped with vacuum, nitrogen, or Formengas-controlled atmospheres. They are capable of handling loads of up to 2,000kg.
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