

Furnace for heating bars/blanks

Furnaces for heating aluminum bars/blanks

Aluminum bars/blanks are heated to 450°C before extrusion. Heating is carried out by direct heating through jet burners with pre-mixing and controlled by PLC.

These natural gas or liquefied gas fired ovens are very economical due to their low energy consumption.

Temperatures are measured from the surface of the beams using movable (retractable) thermocouples.

The furnace insulation is made of lightweight insulating materials, which improves the efficiency of the furnace and accelerates heating during the first heating.

These furnaces can be integrated with hot beam shears to use beams/blanks (4-7m long), resulting in reduced waste and production flexibility.



Furnaces for Heating Dies

Die heating furnaces are designed and manufactured according to customer requirements. 3-stage heating ensures extended die life as the dies are exposed to 450°C for a very short time compared to conventional die heating ovens.

In addition, the first stage of heating is carried out by recycling flue gases. Therefore, these furnaces are a very economical solution for heating dies. We also produce conventional type heating furnaces with electric or gas heating.



Aging Oven

Aluminum aging ovens are used for aging of extruded profiles. It is important to provide a uniform temperature distribution along the furnace for uniform hardness.

Therefore, we developed reversible type air flow aluminum aging furnaces resulting in uniform temperature distribution along the furnace chamber and uniform hardness distribution along the extruded profiles.

These furnaces can be heated by secondary gas heating or electrical heating methods.

We design and produce these furnaces according to the demands of our customers.



Hot Log Shear

Instead of using cut to length billets, integration of hot log shear enables usage of full-length Aluminum Logs. Scrap rate is reduced 3-4 % by using hot log shear.

In addition to the reduced scrap rate, usage of hot log shear brings flexible production. You can change any die with the other regardless of billet length. Because billet length can be changed at any time while you are using hot log shear unit.

As a result of our R&D studies in the year 2006 we have produced Hot Log Shear for various diameters of logs.



Drying Oven

These furnaces are used for drying various material which need to be heated up to any temperatures above ambient temperature.

We can be designed to heat by electric, gas, oil by primary or secondary heating. Taking into consideration customer's needs, they can be produced in batch type, roller conveyor type, belt conveyor type and any other possible type.



Electrode Furnaces



Controlled Atmosphere Furnaces

In some cases, it is necessary to control the atmosphere inside the furnace. For example, it is quite important to control Carbon potential inside the oven

for controlled hardening case depth and diffused carbon rate for steel hardening process.

We can produce such furnaces in batch type or continuous type.

Endo gas system or Nitrogen methanol system can be used for atmosphere control.

These furnaces are fully automated, and all parameters are automatically controlled by utilization of PLC system with other required equipment's.

