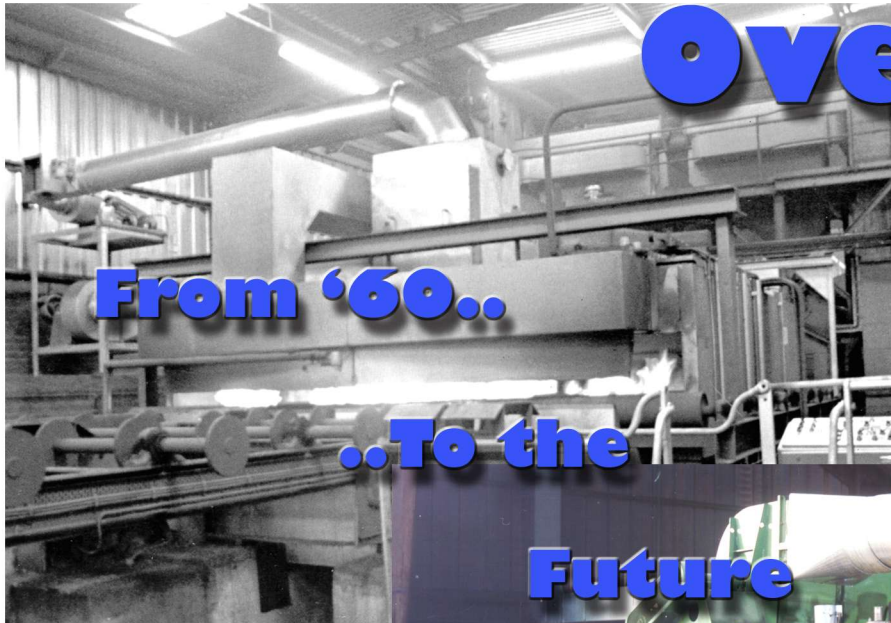




# Preheating Oven



From '60..

..To the

Future



*Vianova Preheating Oven  
Experience and technology*

**Treatment Line**





# Preheating Oven



The unit is designed to pre-heat and dry material to be treated such as drying before sandblasting operations and sufficient pre-heating before painting operations.

The material is heated by means of gas burners.

Burners, valves, pipes and other elements are designed for methane gas or other with calorific power of 7,500 kcal/m<sup>3</sup>.

The pre-heating plant potentiality is enough to dry wet materials. Usually the oven is designed to increase the dry surface temperature of material with max. thickness from +5°C to a max. of 40 °C, when conveyed through the unit at 2.5 m./min. speed.

## Functioning

Starting/stopping of the plant is controlled by a panel located near the plant. After the suction plant for combustion has begun operating, the chamber and burner washing phase begins (essential to remove eventual unburned gas pockets).

When the washing phase is over, pilot flame ignition is controlled. After verifying that the security probe are switched on, it is necessary to control the opening of the general gas valve, which will occur only if all safety precautions are observed.

By using the lever on the a.m. valve, all starting operations will be completed. When the material comes near, the edge activates the sensors placed immediately before the unit.

When a plate enters the unit, the oven automatically controls the burner functions. The ignition electrode of each burner receives current through a high voltage transformer. At the same time, gas will be supplied by opening a solenoid valve. The ignition electrode function is to immediately disengage as soon as the ignition control unit records the flame. The air inside the oven reaches 500 °C and is kept constant throughout the operations. The turbulence created by the hot air removes any humidity film on the material surface, thus drying the material before going through the shotblasting and painting process.



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