

SUBLIDECOR 700 IR 2x5 plus light Platform Wood effect or Wood grain imitation machine

Innovative machine for the wood grain decoration-painting of powder coated aluminium profiles with less operation cost and high productivity.



There is a general electric panelboard with all the necessary controls for the machine's operation, the Temperature controllers and other electronic/electrical equipment of well known manufacturers. For an electric oven 8,2 m long and 1 meter width who will operate with IR emitters and will heat up aluminium profiles and sheets at the purpose of the heat transfer process in 200 degrees centigrade temperature in a cycle time of approximately 5 minutes, the following parts are included:

136 PIECES HEATING IR CERAMIC ELEMENTS 400 W each

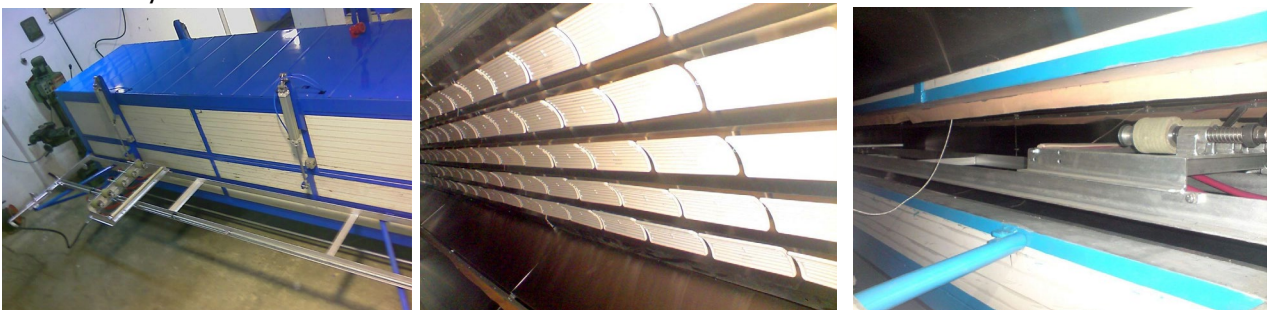
4 PIECES HEATING IR CERAMIC ELEMENTS sensor incorporated with incorporated element K (nik-crnik) and porcelain connectors for the IR emitters. Parts installed suitably in the Oven.

1 PIECE CONTROL PANEL FOR TEMPERATURE CONTROL OF ABOVE 48 kw INSTALLED POWER .

The panel board is for 4 temperature control zones of the IR emitters of total power of 56 Kw at 380V 3ph. The panel board will include: 1) General switch 3X100A + the 4 switches of each controlled zone

2) PID temperature control instruments, 3) Zero cross Solid state Relay, 4) Power fuses + superfast zone fuses, 5) Wiring of all above electrical parts in order to constitute a complete machine of heating up control with and according CE certification.

The treated items temperature control is automatic and results in a sonic and visual alarm for the operators to pull out the ready items out the oven.



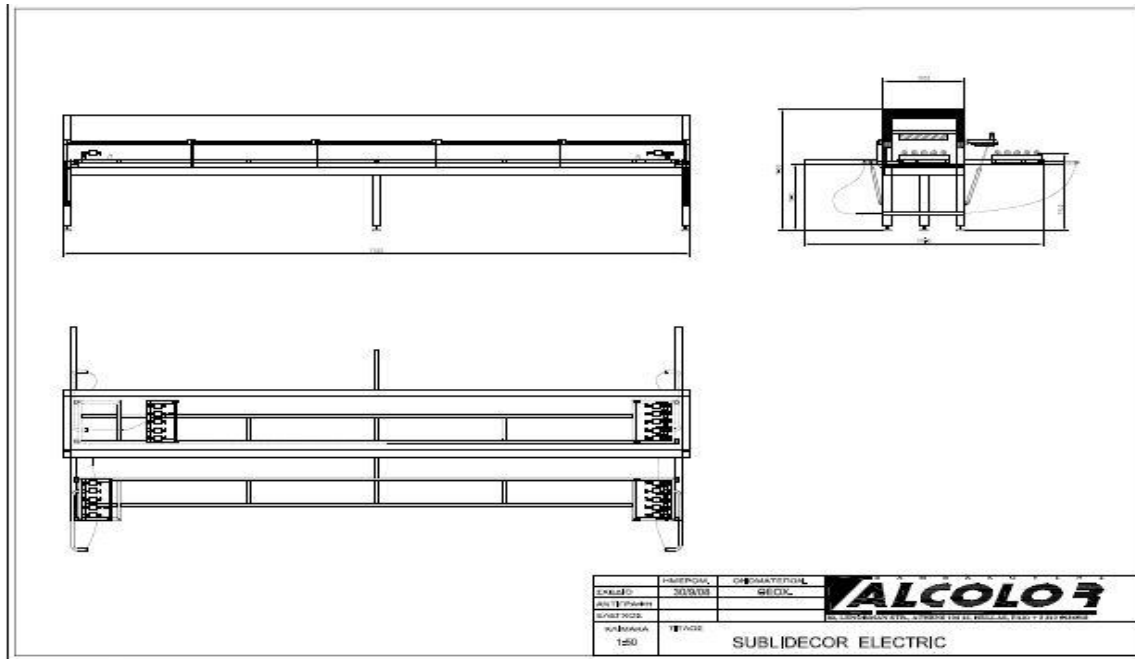
So, the machine includes 2 loading/unloading frames model SUBLIFRAME 700x5 as attached general layout, sliding in and out the oven. There are 1 opening door per side of the oven, pneumatically operated, for permitting entrance and exit of the loading frames. Each SUBLIFRAME 600x 5 can be loaded with 5 profiles in bags. So productivity could be 5 profiles per 5 minutes = **60 per hour.**

The indicated production is the capacity of the machine and could only be realized after a medium to long run. Nevertheless, it mainly depends on the experience and abilities of the operators.

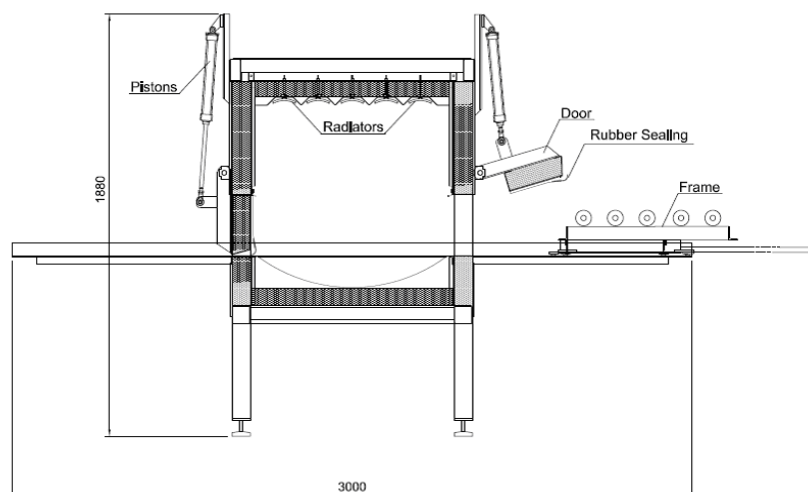
The machine can handle profiles from 0,5 to 7 meters long in lengths chosen at the **machine's orders time**. A complete vacuum system is included with one vacuum system with pumps of Denmark origin of the injector type able to apply vacuum to 10 bags with profiles simultaneously. Air consumption is limited to approx. 500 liters/minute. The pump system is heat resistant equipped with special rubber O-rings.

The vacuum system is of the SUBLISAFE system, an Alcolor invention, which ensures that if accidentally one bag is broken while inside the oven, the vacuum on the rest of the bags is not affected and you only loose one profile going to scrap,not all five.

The general layout and sections of the machine are shown in the drawing below:



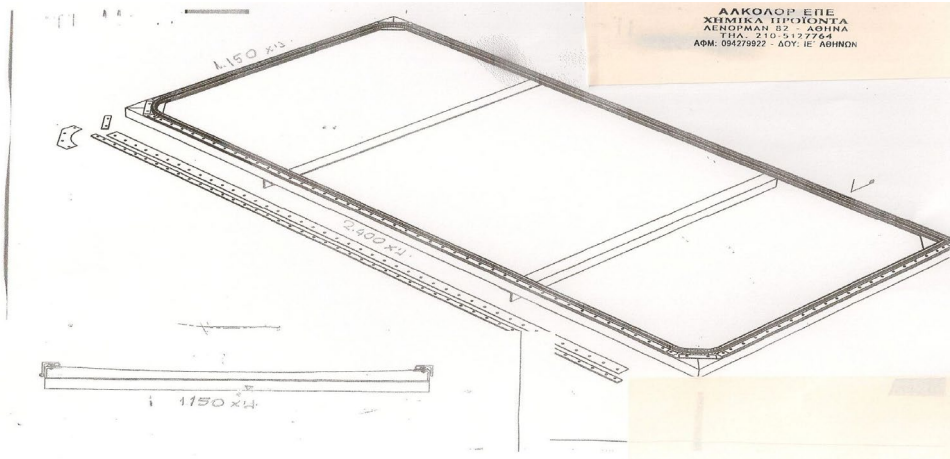
Top view and section



Section option

The flat parts to be decorated are loaded on the special platform model **SUBLIDECOR Light-Vacuflat** Light sheet decoration platforms loaded on one of the existing laterally sliding **FRAMES**.

Each platform weighs less than 35 kg and can easily be loaded by 1 operator of the loading position. The direct heating of the items through the decoration film without using a rubber membrane is giving a high capacity in sheets decoration. While processing sheets only the sheets are loaded / unloaded, not the platforms. It could process sheets up to dimensions 700 x 2500 mm size. Below a schematic and a photograph of the light-vacuflat platform.



Lateral Loading:

