ALBAPLANT

INDUSTRIAL FURNACES & HEAT TREATMENT TECHNOLOGIES

DIES PREHEATING FURNACES

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THE SOLUTION OF QUALITY AND CONVENIENCE IN TREATMENT WITH OVER 35 YEARS OF EXPERIENCE

ALBAPLANT manufactures individual drawer dies preheating furnaces with excellent quality standards in a wide range of geometries and sizes for small to large volume applications.

TYPICAL APPLICATIONS INCLUDE:

- Versions with pre-vacuum and protective atmosphere (nitrogen)
- Versions with protective atmosphere (nitrogen)
- Versions in the air
- Forced ventilation on the main models
- Plants designed for robotic islands

FEATURES:

- Perfect nitrogen-resistant chamber
- Low nitrogen consumption
- Low oxygen residue
- Low energy dispersion
- Double control for the temperature
- Version with overlying drawers

RESULTS IN THE EXTRUSION:

- In the versions with the usage of nitrogen, there is a boost of the extrusion speed thanks to the elimination of oxides on the die, so an improvement of the friction coefficient is perceptible.
- In the versions with the usage of nitrogen, there is an improvement of the shine of the extrusion due to the elimination of oxides on the die.
- Improvement to the endurance of the die thanks to low thermal shock caused by the usage of not perfectly warm dies.
- Reductions of attempts/accidents caused by an incorrect heating of the die.
- Reduction of initial waste of time for the set up of extrusion's parameters.

OUR RANGE

The die is housed on a support trolley having a very limited mass, therefore with low thermal capacity and mild radiation. With the independent drawer structure, a considerable amount of energy is saved, as the heat that escapes when opening only one oven chamber is far less than what is lost every time the lid of the traditional oven is opened. The independence of the pyrometry between the drawers allows for matrices with different temperatures depending on the type and difficulty of extrusion.

THE CHOICE OF QUALITY

The considerable experience gained in over 35 years has allowed us to develop a competitive and advanced proposal.
Dies preheating furnaces with individual drawers have a primary role in protecting the endurance of the dies and the quality of the profiles.
The use of vacuum technology allows nitrogen consumption to be reduced by about 10 times compared to technology with continuous washing only (lose nitrogen).
The use of ventilation reduces preheating times by 25%.

WITH OUR SUPPLY YOU WILL HAVE...

- Uniformity for each chamber of +/- 3 ° C or better
- No interference between the dies
- The oxidation of the dies was canceled**
- Very low dispersions
- Process chambers all in stainless steel
- Our know-how is the result of experience gained in decades of activity in the sector made available to all our customers.
- High construction level.