



**INDUSTRIAL FURNACES & HEAT TREATMENT TECHNOLOGIES**



## **NITRIDING FURNACES**

THE SOLUTION OF QUALITY AND CONVENIENCE OF NITRIDING WITH OVER 35 YEARS OF EXPERIENCE

ALBAPLANT produces gas nitriding furnaces with high quality standards in a wide range of geometries and sizes for small to large volume applications.

#### TYPICAL APPLICATIONS INCLUDE:

- Gas nitriding treatment
- Nitrocarburizing treatment
- Low pressure nitriding treatment
- Pre-oxidation treatment
- Post-oxidation treatment

#### FEATURES:

- Integrated heating and cooling cycle
- High reliability of the heating elements
- Atmosphere analysis system with automatic control
- Modular and ergonomic tool holder
- Standard compliant emissions
- Remote assistance and remote surveillance

#### WHAT YOU GET:

- Repeatability and reliability of the process
- Immediacy in reading information
- Low and easy maintenance
- Possibility of customizing "in house" cycles

#### WITH OUR SUPPLY YOU WILL HAVE...

- Uniformity inside the pot of  $\pm 3^\circ \text{C}$  or better.
- Process security.
- Traceability of parameters all recorded on PC.
- High level diagnostics.
- Our know-how for nitriding and nitrocarburising processes, the result of experience gained in decades of activity in the sector made available to all our customers.
- Exclusive process regulation and control system, both for top-loading and horizontal loading pit furnaces.
- High level of construction and safety of the control panels.



#### THE CHOICE OF CONSTRUCTION GEOMETRY

Due to its particular shape, the pit oven is the type of furnace that best guarantees gas sealing performance and has a load capacity with optimal efficiency. The chamber furnace was born from the need to treat loads horizontally as an alternative to traditional pit furnaces, it ideally lends itself better to automatic lines that can be gas nitrided and / or nitrocarburised, but also annealing and tempering, with loading and automated unloading from shuttle.

#### PLANT WITH TURNKEY SYSTEM

ALBAPLANT designs and manufactures plants and automatic lines with the turnkey system. Our turnkey nitriding system is much more than a standard furnace with controls. It is an integrated system that starts from the evaluation with the customer of the best application in accordance with its production needs. He then continues with on-site installation and commissioning, staff training, process tests and development of personalized recipes.

This integrated turnkey method offers superior quality and reliability year after year, while optimizing application performance and efficiency costs. To which are added our after sales services.

