

THERMO-NIT GAS NITRIDING & NITROCARBURIZING FURNACES



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Thermo-nit is a turnkey nitriding/nitrocarburizing furnace system which can be produced horizontal or pit-type are designed by IFPA Industrial Furnaces. Our system consist of fully automatic control panel, compact gas panel as well as furnace body.

Thermo-nit's main features are:

Furnace body:

- Kanthal heating elements
- Ceramic fiber insulation for minimum energy consumption
- Silicon cover seal
- Closed-loop cooling system for retort, door as well as circulation fan
- Double wall retort made of Inconel alloy or nickel based stainless steel.
- Stange Oxygen and Hydrogen Sensor

Gas Cabinet:

- Special mass flow controllers with digital panel
- Special T-type filter for each gas to protect MFC
- Stainless steel instrumentation equipments for piping
- Visual and electronic pressure gauge

Control Cabinet:

- Industrial PC for monitoring all process parameters and remote control
- Standards Siemens PLC for furnace control
- ABB drives for circulation fan
- Schneider electrical components for electrical cabinet
- Air-conditioner to protect all of electronical component.

Optional Features

- Vacuum pump
- Accelerated cooling system
- Closed-loop cooling system
- Neutralizer
- Racking
- Oxidation package
- AMS 2759/10 and /12 compliance

Benefits

- Easy commisioning
- Repeatable process parameters
- Low operating costs
- Minimum maintenance requirements
- Fully automated operation
- Remote control if necessary





- High performance automotive and aircraft engine crankshafts are nitrided for better fatigue resistance and wear properties on bearing journals.



- Life-enhancing and wear resistance improvement applications for forging dies



- Extrusion dies are nitrided and re-nitrided several times to extend their die life. Life-enhancing and wear resistance improvement applications for extrusion dies



- Life-enhancing and wear resistance improvement applications for plastic screw and barrels



- Nitriding gears for applications ranging from heavy-duty machinery to small automotive accessories enables lower manufacturing costs. For one customer, this meant eliminating costly finishing operations needed after carburizing.



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