

NXH TURNKEY SYSTEM

The NXH is a turnkey nitriding/nitrocarburizing system, which includes a custom engineered batch horizontal furnace, a Nitrex control system, process software and nitriding process control technology, known as NITREG®.

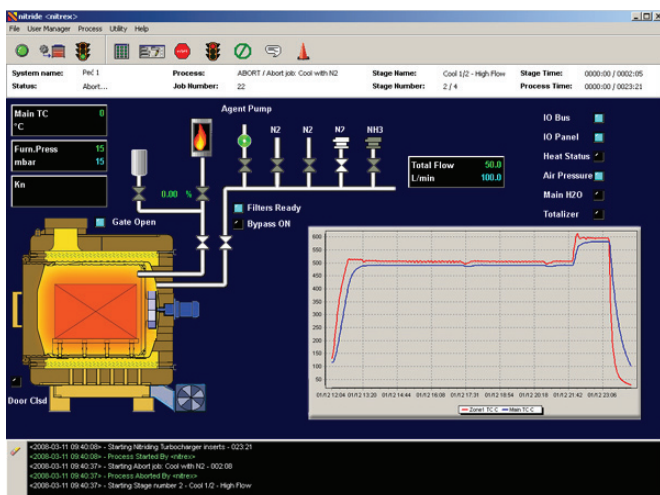
ADVANCED FURNACE

The front loading, retort furnace is equipped with an internal recirculation fan and a cooling air blower. A specially designed retort and heating elements guarantee long and reliable service.

The hot gas recirculation fan provides fast load heat-up rate and guarantees excellent temperature and nitriding uniformity.

The furnace's main features are:

- Separate heating zones for accurate temperature control.
- Light ceramic fiber insulation for fast and efficient heating as well as cooling
- Kanthal heating elements
- Double-wall retort made of refractory or Inconel 600 alloy
- Cover seal for gas tight retort
- Nitrex process control system monitors and controls parameters and furnace operations automatically



User Interface - Signal sensing points such as temperature, flows, power output, nitriding potential, and many more are continuously displayed on the control screen.

*AMS 2759/12 compliant optional



NXH furnaces complete with Nitreg® process control

NITREX PROCESS CONTROL SOFTWARE

The closed-loop process control enables the system to respond automatically to the changes in nitriding conditions that occur during the process cycle.

The process computer continuously receives data from the furnace atmosphere sensors and adjusts the process parameters in order to maintain the preset value of the nitriding potential.

The control software also includes a powerful recipe builder along with troubleshooting, emergency and calibration menus to aid the user in maintaining and operating the nitriding installation.

NITREX TECHNOLOGY

NITREG® technology offers individually customized processes for different applications and materials with optimum results.

AVAILABLE OPTIONS

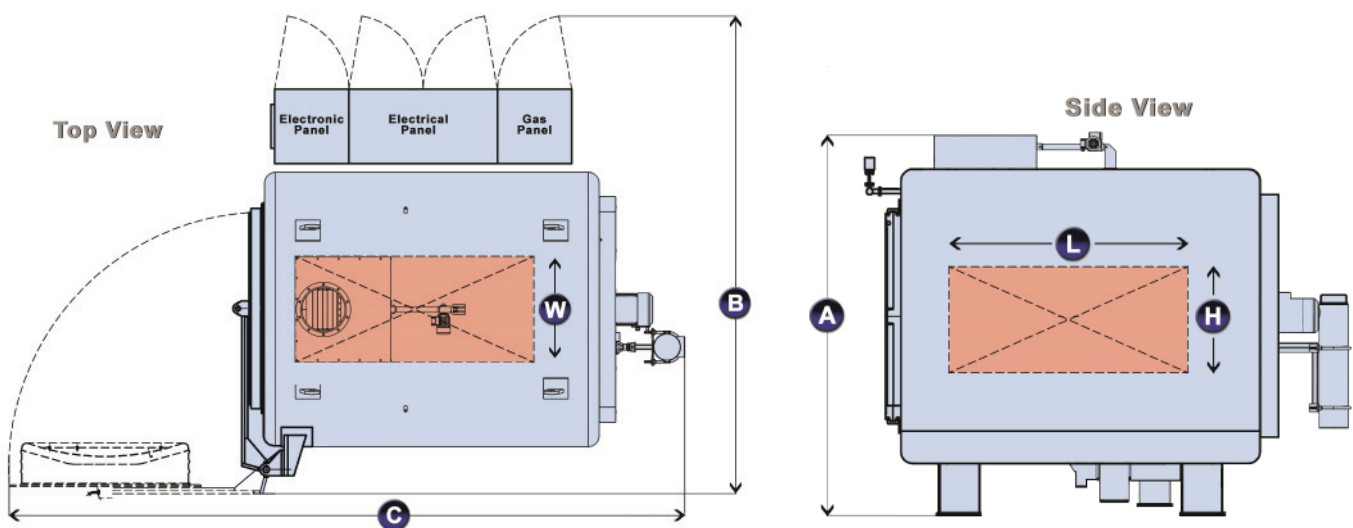
- Accelerated-cooling system
- Automatic door opening
- Effluent neutralizing
- Custom racking
- Charge cars

BENEFITS

- Fully Automated Operation
- True Nitriding/Nitrocarburizing Process Control
- Superior Case Properties
- Various Case Configurations
- Repetition of Results
- Minimum Maintenance Requirements
- Easy Loading/Unloading
- Significantly Reduced Cooling Times
- Low Operating Cost
- Proven System Reliability
- High Productivity

STANDARD SIZES*	NXH-669	NXH-6612	NXH-9812	NXH-9818
Working Space (W x H x L)	23½" x 23½" x 35½" 600 x 600 x 900mm	23½" x 23½" x 47¼" 600 x 600 x 1200mm	35½" x 31½" x 47¼" 900 x 800 x 1200mm	35½" x 31½" x 71" 900 x 800 x 1800mm
Load Capacity (max)	1300 lbs / 600 kg	1700 lbs / 800 kg	2200 lbs / 1000 kg	3300 lbs / 1500 kg
Max Temperature	1200°F / 650°C	1200°F / 650°C	1200°F / 650°C	1200°F / 650°C
Working Temperature	1110°F / 600°C	1110°F / 600°C	1110°F / 600°C	1110°F / 600°C
Dimensions (A x B x C)	102" x 130" x 181" 2600 x 3300 x 4600 mm	102" x 130" x 193" 2600 x 3300 x 4900 mm	114" x 154" x 193" 2900 x 3900 x 4900 mm	114" x 154" x 217" 2900 x 3900 x 5500 mm

* Other sizes are available. Please contact Nitrex for details. Nitrex reserves the right to make changes without notice.



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