Available processes

- ZeroFlow nitriding
- Nitrocarburizing
- Oxidation
- Nitrosulfurizing
- Tempering
- Annealing

Our nitriding furnaces guarantee

- Simple and automated service due to using a PLC controller and an industrial computer
- Full technical and technological support
- Conformity with AMS 2750D, European and American standards
- Good and repeatable results of the processes
- Low installation and operation costs
- Conformity with environment protection requirements

Controlling the nitriding process has never been so simple! The nitriding potential is regulated with the help of PLC controller, which by controlling an adequate valve on the basis of indications from the hydrogen analyzer periodically opens and closes the inflow of ammonia to the furnace. When there is no ammonia flow the nitriding takes place in a tight-closed retort, however the nitriding atmosphere stays under constant control and is being kept at low overpressure. The excess of the atmosphere is being let out by periodical opening of the outlet valve and burnt in a simple, but efficient utilization burner.

Our furnaces are produced with maintaining all of the effective industry standard, and the component parts to its construction originate only from renowned and reliable suppliers, which guarantees their long-lasting work and reliability.
Horizontal and vertical retort furnaces for gas nitriding

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* HRNe - horizontal retort nitriding - electrical

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* VRNe - Vertical retort nitriding - electrical

The given characteristic is a standard series of types of SECO/WARWICK furnaces, in case there is such a need we are able to adjust our products to the requirements of our customers.

1. Efficient heating elements
2. Light and durable insulation
3. Strong retort with low weight
4. Efficient atmosphere mixer
5. Fast and effective cooling system
6. Gas- and vacuum-tight closure

1. Efficient atmosphere mixer
2. Light cover
3. Strong retort
4. Heating elements
5. Light and durable insulation
6. Housing
7. Cooling water outlet
8. Cooling water inlet
9. Mechanical cover lifter