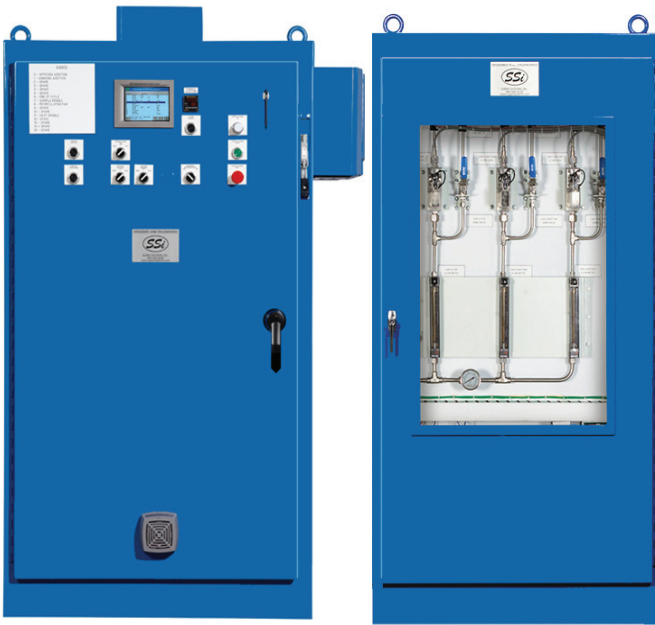


# Nitriding

precision controllers and sensors for simple and complex gas nitriding processes

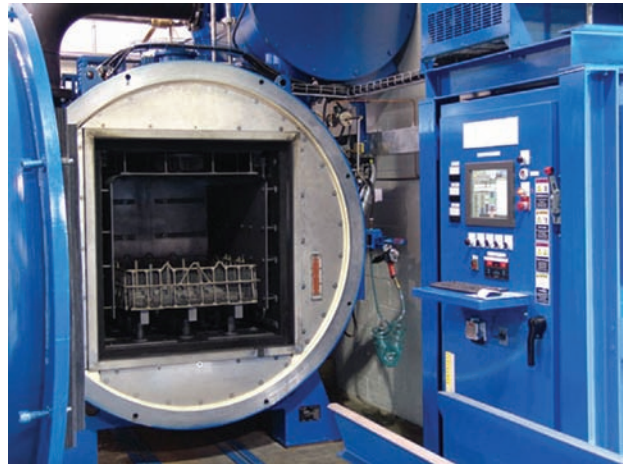
## Nitriding and Temperature Control



Custom system designed and engineered by Super Systems

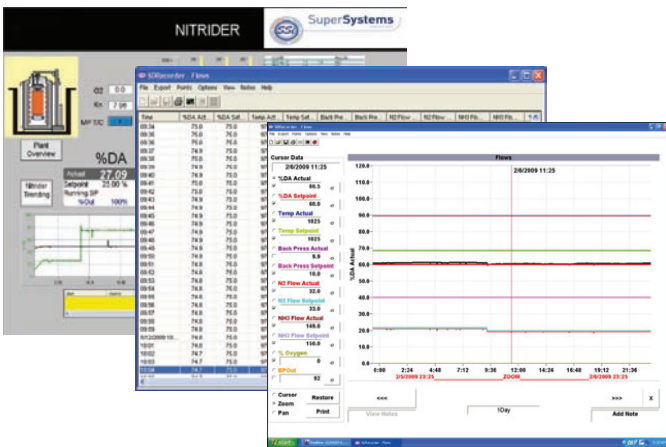
### Featuring Safeties and complete controls

- Flow control ( $N_2$ ,  $NH_3$ , DA,  $CO_2$ , Endothermic,  $H_2$ )
- Atmosphere measurement ( $O_2$ ,  $H_2$ , % DA,  $K_N$ )
- Automated back pressure control
- Control of % DA and  $K_N$
- Automatic single and multi-stage process
- Precise control of compound layer
- Automated  $N_2$  emergency purge
- Pre/Post oxidation
- Fully programmable (lights out operation)



### Systems include Batch, Vacuum or Pit Furnaces

- Complete control systems for Nitriding and FNC
- Programmable controls and gas flow panels
- 9210 nitriding and temperature control systems
- Follows NFPA safety regulations
- Extensive alarming for: temperature, flow, pressure deviations
- Integrated PLC communications



# Nitriding Control

## Model 5000 Nitrider

### Features

- Temperature, % DA, Nitriding potential (Kn)
- Fully automated programmable controlled cycles
- Integrated digital "paperless" chart recorder
- Hi-Limit controller
- Alarms and events (EOC bell, horn & Stack light)
- Optional filtration system
- Allen Bradley MicroLogix PLC
- Optional backpressure control manifold
- Low pressure, high pressure switches with auto purge
- Oxygen analyzer
- Configuration software



Super Systems - your nitriding controls provider

## Simple Nitriding Monitor/Control System

- % Dissociation Cell and filters included
- RS485 Communications
- Suggested for "trim" control ONLY
- Displays % Dissociation
- Retransmission of 0-100% DA
- 14" H X 12" W X 8" D Hoffman enclosure



Super **Systems**  
incorporated

7205 Edington Drive  
Cincinnati, OH 45249  
513.772.0060 **phone**  
513.772.9466 **fax**

[www.supersystems.com](http://www.supersystems.com) • 800.666.4330