



FURNACE TYPES: COMPUTER CONTROLLED

- Vacuum Furnaces with Nitrogen and Argon Pressure Gas Quench
- Integral Quench/ Endo Gas or Nitrogen Gas Atmosphere Furnaces with Oil or Intensive Water Quench
- Salt Baths

CASE HARDENING

- Precision Gas Carburizing
 - Localized carburizing
 - PLC controlled atmosphere

CARBON RESTORATION

THERMAL TREATMENT FOR PLASTICS

CARBONITRIDING: INTEGRAL QUENCH FURNACES



HARDENING SERVICES: QUENCH AND TEMPER

- Controlled Atmospheres
- Furnace to Air, Oil, Water Quench, or IntensiQuench®
- Vacuum/ Controlled Gas Quench – Nitrogen or Argon
- Neutral Salt Bath
 - Automated Handling
 - Austempering
 - Marquenching
- Precipitation Hardening
 - Artificial Aging

ANNEALING/THERMAL STRESS RELIEVING

- Full
- Homogenize
- Isothermal Anneal
- Subcritical Anneal

QUALITY AND INSPECTION

- Gauging and Sorting
- Laboratory Testing
 - Rockwell
 - Superficial Rockwell
 - Brinell
 - Tukon Micro-Hardness - Knoop
 - Metallographic Examination
- Metal Treating Institute trained Heat Treat Specialists

CRYOGENIC/DEEP FREEZE TREATMENTS TO -300°F ADDITIONAL SERVICES

- Blast Cleaning
- Heat Treat for the Non-Heat Treater Seminars – presented at AST or Customer locations
- Metallurgical Consulting Services
- Specialty fixtures – Jig/ Flat Tempering
- Black Oxide available
- Pick-up and Delivery (in Ohio)

AKRON STEEL TREATING COMPANY

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