Complete Commercial Heat Treating Service

Facilities

- BATCH PROCESSING
  - Hardening, Carbonitriding, Carburizing, Annealing, and Normalizing with Protective Atmosphere
- CONTINUOUS BELT PROCESSING
  - With Polymer, Water, or Oil Quench Capability
- VACUUM PROCESSING
  - Argon Gas, Nitrogen Gas, and Oil Quenching Capability
  - Vacuum to 1 micron
- INDUCTION HARDENING
  - Induction Unit - 150 kw/15 to 30kHz
  - Induction Unit - 200 kw/10kHz
- NITRIDING
  - Standard Nitriding
  - Ferritic Carbonitriding
  - Triniding & Polish
- STRESS RELIEVING PROCESSES
- ALUMINUM PROCESS (6 SEC. QUENCH)
- Quick Quench Aluminum Processing
  - Aging Furnaces
- TEMPERING
- Full compliment of over 30 tempering furnaces
- SUPPORT SYSTEMS
  - Computerized Furnace Controlling System
  - Furnace Management Network Systems for the Continuous control and tracking of key heat treating parameters
  - Three-way gas analysis of CO2, CO, and CH4 in addition to O2 probes
- MATERIALS TESTING LABORATORY
  - Chemical Analysis, Mechanical Properties, Micro hardness, Scanning Electron Microscope, Metallography, Impact Testing, NDT and More

TS 16949 and ISO 9001 Approved!

Materials

- Automotive/Trucking
- Tool & Die
- Aerospace
- Military
- Munitions
- Medical
- Mining
- Nuclear
- R & D Services
- TS 16949 & ISO 9001 Certified
- Nadcap Accredited

Quality & Customer Service

QUALITY SYSTEMS
- Nadcap Accredited
- Digital Hardness Testers
- Weekly Calibration of Furnaces
- 2 Independent Methods of Checking Atmosphere
- Carbon probes/3 gas analyzer
- Uniformity per SAE/AMS 2750
- Military, Automotive and Aerospace Specifications
- SPC
- ISO 9001 & ISO/TS 16949 Certified

CUSTOMER SERVICES
- Trucking
- Accreditation for Nadcap, ISO 17025 & ISO 9001
- Chemical, Mechanical and Fastener Testing
- Staff Metallurgists
- Staff Process Engineers
- Prototyping / Research and Development
- Process Charts on Request
- Process Certification
- Field Sales Engineers
- Customer Service Representatives
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- Field Sales Engineers
- Customer Service Representatives

US Heat Treat
A Division of Modern Industries, Inc.
135 Green Road
Kersey, PA 15846
Phone 814.885.8514
Fax 814.885.8498

Email Customer Service:
MHTServices@modernind.com

Visit our web site at www.modernind.com

CQM 005
Nadcap Accredited

Continuous Cast Belt Furnace

Harden and Temper, Carburizing, and Carbo-Nitriding

Materials Research

Complete Materials Testing Laboratory

Nadcap Accredited, SGS, and ISO 9001 Certified

Extensive experience serving Heat Treaters using Modern's inclusive preparation and testing facilities.

Nitriding

Nitriding is performed on steels to provide a hard surface while maintaining a soft, ductile core. Since Nitriding is performed at low temperature, distortion is held to a minimum. Modern is the largest Nitriding facility in the area with 5 furnaces dedicated to Nitriding.

MODERN INDUSTRIES, INC.
Heat Treating Division
613 West 11th Street
Erie, Pennsylvania 16501
Phone 814.455.8061 x 261 (customer service)
Fax 814.454.3090

Quality & Customer Service

Visit our web site at www.modernind.com

Modem Heat Treating
MODERN INDUSTRIES, INC.
ERIE, PENNSYLVANIA
www.modernind.com

Complete Commercial Heat Treating Service

TS 16949 and ISO 9001 Approved!

Markets

- Automotive/Trucking
- Tool & Die
- Aerospace
- Military
- Munitions
- Medical
- Mining
- Nuclear
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Heat Treating Processes

- Hardening & Tempering
- Carburizing
- Carbonitriding
- Ferritic Nitrocarburizing
- Triniding
- Short Cycle Nitriding
- Nitriding
- Vacuum Processing
- Induction Hardening
- Aluminum Heat Treatment
- Normalizing
- Stress relieving
- Deep Freezing
- Carbon Restoration
- Sand Blasting/Tumbling
- Vacuum Brazing
- CNC Straightening
- Cryogenics to -300°F
- Annealing

Vacuum Processing, Tool & Die, Specialty Steels

Vacuum Processing reduces size change and eliminates many of the problems often associated with other methods of processing.

- Tool Steels
- Hot Work Steels
- Stainless Steel
- High Speed Steel
- Inconel
- Specialty Brazing
- Aerospace
- Nuclear Work
- Bright Annealing

Special Features

- (4) Staff Metallurgists
- Truck Fleet for Prompt Delivery
- Tumbling & Deburring
- Special Cleaning
- Nadcap Accredited
- TS 16949 & ISO 9001 Certified
- Computer Process Controls
- Full Time Customer Service
- Large Capacity Batch Equipment

Batch Furnaces are equipped with oil or water quench, protective atmospheres, computerized controls and monitoring of all processing parameters.

Process Controls

Computerized control, monitoring, adjustments and traceability of furnace atmosphere, temperature, cycle time, quench variables and other process elements.

Induction Hardening

Induction Unit Dual-Scanner - 100 kw/30khz and 200kw/3-10khz