



Heat Treat System Capabilities

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HEAT TREAT PROCESSES AVAILABLE AT THIS LOCATION

Annealing

- _X_Bright
- _Full
- _Homogenize
- _X_Isothermal
- _Local (Flame, Induction)
- _X_Spheroidize
- _X_recrystallization
- _X_normalizing

Hardening

- _Conductive
- _Flame
- _X_Furnace
- _Induction
- _Induction-Atmosphere
- _Neutral Salts
- _Vacuum

Carburizing

- _Fluid Bed
- _X_Gas
- _Pack
- _Salt
- _Vacuum
- _X_Carbon Restoration

Nitriding

- _Fluid Bed
- _Gas
- _Salt

Carbonitriding

- _Fluid Bed
- _X_Gas
- _Salt
- _Vacuum

Tool Steel Treating

- _Fluid Bed
- _X_Furnace
- _Salt
- _Vacuum

High Speed Steel Treating

- _Fluid Bed
- _Furnace
- _Salt
- _Vacuum

Aluminium/Nonferrous

- _X_T-5
- _X_T-6
- _X_solutionizing
- _X_Air quenching
- _X_annealing and tempering (bright, with atmosphere)
- _X_Air quenching
- _X_water quenching

Others

- _X_Cryogenic Treating (Deep Freeze)
- _Straightening

HEAT TREAT EQUIPMENT AND CONTROLS LIST

Furnace

- _X_Atmosphere
- _X_Electric
- _Fluidized Bed
- _X_Gas/Oil Fired
- _Salt Bath
- _Vacuum

Atmospheres

- _X_Ammonia (NH3)
- _Dissociated Ammonia
- _X_Generators
- _X_Endothermic
- _X_Exothermic
- _X_Nitrogen
- _X_Other

Temperature Instrumentation

- _X_Controlling
- _X_Indicating
- _X_Recording

Thermocouple

- _Test Pyrometer
- _X_Test Thermocouple (Standard)
- _X_Primary Standard Thermocouple

_X_Flow Meters

_X_Mixing Valves

Atmospheres Controls

- _Infrared Monitoring
- _Controlling
- _Resistance Wire Test
- _X_Oxygen (O2) Probe
- _X_dew-Checker
- _X_CO-analysator
- _X_Surface Carbon with Emission Spectrometer
- _X_Other

TYPE OF QUENCH SYSTEMS AVAILABLE:

- _X_Oil
- _X_Water (only aluminium materials)
- _X_Cryogenic Treating (Deep Freeze)

- _Salt (%)
- _Synthetic (only induction heat treatment)

- _Other (List)
- _X_Air

INSPECTION/TEST EQUIPMENT AVAILABLE:

- _X_Emission Spectrometer
- _Carbon/Sulfur Analyser
- _X_Hardness Testers
- _X_Vickers
- _X_Brinell
- _X_Rockwell
- _X_Rockwell Superficial
- _X_Microhardness (Tukon/Vickers)
- _Magnetic Penetrant Inspection
- _Mechanical Test Equipment

- _X_Cut-off Equipment (abrasive wheel, bandsaw, etc.)
- _X_Metallographic Sample Preparation
- _X_Metallograph
- _X_Microscopes with digital camera and picture storage
- _X_Eddy Current
- _Gas Chromatography
- _Quenchometer
- _Fluorscope
- _Ultra Sound
- _X_Other