PPI is an in-house full-service heat treat provider. Heat treating can be used to improve strength, hardness and corrosion resistance. PPI also offers annealing that softens the metal, making it more workable. Let the experts at PPI fill your heat treating needs.

**FEATURES AND BENEFITS**

- Johnson Gas Recuperative Recirculating car type furnace for stress relieving, normalizing or annealing
- Chamber size: 72” W x 72” H x 120” L
- 2000° F maximum temperature
- 20,000 lb capacity
- Double-door electric driven carts
- Overhead loading and unloading
- Honeywell programmable controller
- Honeywell circular type recorder

**STRESS RELIEVING**

Heating the steel to a relatively high temperature shortly after welding and maintaining that temperature for a specific period of time.

- Reduces internal stress caused by welding, quench hardening or cold working of steel
- Extends life expectancy of parts and predictable design

**ANNEALING**

Controlled heating and slow cooling to induce softness.

- Removes gases, relieves stresses and enhances the mechanical properties of alloy steels to make the base metal more malleable

**NORMALIZING**

Similar to annealing, except the cooling process is much faster.

- Increases strength but less ductility in the metal
- Produces a higher yield strength with greater tensile strength and in most instances higher impact resistance

**MACHINING**

Normalizing and thermal stress relieving machining of components.

- Mechanical property consistency at flame cut edges, welds and cast materials is improved
- Fabrication stresses are reduced to improve dimensional stability
- These improvements can reduce machining time and consumable costs