FivesNA Delivers:

- **Increased production**
  More tons per hour
- **Reduced downtime**
  More process availability
- **Lower energy consumption**
  Less dollars per ton
- **Lower emissions**
  For “green” goals or regulation requirements
- **Improved product quality**
  Less scrap
- **Reduced labor costs**
  More profit per ton

**Furnace Health and Efficiency**

Monitoring through our smart SCADA program assures consistent heating.

- Alerting quality issues before they happen
- Optimizing furnace productivity
- Determining ideal furnace loading practices
- Predicting steel heating quality

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Fives North American is a single-source supplier of forging and heat treat furnaces.

Providing the best in combustion systems, industrial furnace design, construction, and support services for improving thermal processes.
AMS 2750 heating quality without excess air
35% to 50% reduction in unit heating cost compared to cold air systems
CO₂ emissions reduced in direct proportion to fuel reduction
Environmentally neutral on NOx formation
Potential to increase productivity by optimizing furnace efficiency using advanced data acquisition

To provide the highest value to our customers, we have joined the capabilities of our furnace division, North American Construction Services, with our combustion division, Fives North American Combustion. Combined, we offer the Forge Industry unique, engineered solutions.

As a single source supplier of regenerative Forge Furnaces and high velocity Heat Treat Furnaces, we provide our customers process solutions, from initial development through project execution, that deliver lasting business value.

FORGE FURNACES
- Box
- Carbotttom
- Rotary

HEAT TREAT FURNACES
- Box
- Carbotttom
- Tip Ups

MEETING THE MOST STRINGENT TUS REQUIREMENTS
- Airbus
- Bell Aerospace
- Boeing
- GE
- Mil Specs US Navy
- Pratt & Whitney
- Rolls Royce

Heat Treat Furnaces
- **Class I Furnaces**
  Cold air furnaces pulse firing with excess air
  (+/- 5°F @ 600°F)
- **Class II Furnaces**
  Cold air furnaces firing with excess air
  (+/- 7°F @ 600°F & 1500°F)
- **Class III Furnaces**
  Cold air furnaces firing with excess air
  (+/-13°F @ 1500°F & 2100°F)

Forging Furnaces
- **Class II Furnaces**
  Multi pair of 4343 TwinBed II burners firing on ratio
  (+/-15°F @ 1650°F & 1900°F)
- **Class IV Furnaces**
  Single pair of 4343 TwinBed II burners firing on ratio
  (+/- 20°F @ 2200°F)
- **Class V Furnaces**
  Single pair of 4343 TwinBed II burners firing on ratio
  (+/- 25°F @ 2400°F)