

# R.T. Patterson Company, Inc.

## Engineers and Consultants

### CLIENT

Gerdau  
Jacksonville, Florida

### PROJECT

New Melt Shop Project

### PROJECT SCOPE

Project consisted of installing a new Steel Making Facility, replacing the existing steel making shop at Gerdau AmeriSteel in Jacksonville, Florida by installing a new Electric Arc Furnace Facility. The new facility was constructed while the existing melt shop was in operation. After the new facility was commissioned, the old melt shop was idled. The new Melt Shop is designed for a production of 1,045,600 tons/year. Major components of the new facility are:

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- New Electric Arc Furnace – Tap weight of 110 ton capacity with a 20 ton hot heel, EBT, AC power, with side wall, oxygen, gas and carbon injection system.
- New Alloy Additive System.
- New Water Treatment Facilities.
- New Fume Emissions System – including roof canopy, duct system, drop out box, quench tower and 1,000,000 cfm baghouse.



### RTP SCOPE OF WORK

RTP provided Installation engineering services to include:

- Field investigations
- General arrangement and layout drawings
- Preparation and maintenance of the project CPM schedule
- Dismantling and relocation drawings and specifications
- Foundation design drawings
- Structural steel design drawings
- Architectural design drawings
- Process and utility piping design and installation drawings
- Electrical design and installation drawings
- Preparation of installation specification packages
- Preparation of building permit drawings
- Project engineering services



**Project Value: \$59 Million**