Falk Professional Services Library

• Coke Oven Battery
  o Buckstay Alignment
  o As-built Verification
  o Settlement Monitoring
  o Expansion Monitoring
  o Larry Car Rail Alignment
  o Collector Main Alignment
  o Stand Pipe Alignment

• Turbine
  o Shaft Alignment and Elevation
  o Flange Flatness
  o Bearing

• Blast Furnaces
  o Tap Holes
  o Burden Probe / Mud Guns
  o Recycle System
  o Color Mapping of inside hearth refractory elevations (?)
  o Refractory Laser Scan
  o Down Comer Fabrication and Replacement
  o Stove Hot Blast
  o Furnace Granulator
  o Hearth Surface Deviation
  o Stove Shell Laser Scan
• **BOF / EAF**
  - As-built verification
  - Torison Arm
  - Duct Installation
  - Ladle
  - Stack
  - Hood Laser Scan
  - Car Rails
  - Calderon Car Rails
  - Dart Machine Rails
  - Scrubber
  - Lower Vessel
  - Track Elevation and Alignment
  - Separator Pump Base
  - Tap Side Laser Scan
  - Ladle Surveys
  - Furnace Bull Gear

• **Casters**
  - Oscillator
  - QC / Repair Stands
  - Segment Verification
  - Shim Calculations
  - Starter Bar Roll Survey
  - As-built Verification
- Tower Top Section
- Gearbox Installation and Alignment
- Saddle Elevations
- Shroud Manipulator
- Shear Alignment
- Mold Table
- Slab Rotating Table
- Mold Shop
- Caster Rolls
- Dynamic Tundish Study
- Tundish Repair
- Carrier Frame
- Segment Extractor Guides
- Tundish Car

• **Conveyor Systems**
  - Chain Conveyors
  - Walking Beam Conveyors
  - Scale Weighing Equipment
  - Automatic Banding Equipment
  - Coil Marking equipment

• **Overhead Crane System**
  - Rail Alignment Survey
- Crane Bridge Square Check
- Crane Bridge Beam Camber Check
- Gearbox and Shaft Alignment Check
- Building Column Plumb Measurement
- Building Girder Beam Check
- Building Structure Defect Scans

* 3-D Volumetric
  - Piping/Conduit/Ductwork As-built and Design
  - Structural Steel System Components
    - As-built and Design
    - Scan of Existing Conditions
    - Identify Maintenance and Repair Issues

* Detailed Laser Scanner Work of Existing Conditions
  - Equipment Removal
  - Equipment Installation
  - Equipment Clash Detection between component pieces
  - Large Crane Pick Placement and Movement
  - Operator Line of Sight Studies and Cube Maps Photos
  - Flume – New liner verification with clash detection

* 3rd Party Verification of Original Equipment Manufacturer and Rebuilt Equipment