

Falk Professional Services Library

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

- **Turbine**
 - Shaft Alignment and Elevation
 - Flange Flatness
 - Bearing

- **Blast Furnaces**
 - Tap Holes
 - Burden Probe / Mud Guns
 - Recycle System
 - Color Mapping of inside hearth refractory elevations (?)
 - Refractory Laser Scan
 - Down Comer Fabrication and Replacement
 - Stove Hot Blast
 - Furnace Granulator
 - Hearth Surface Deviation
 - Stove Shell Laser Scan

Melt Shop and Primary Operations – Falk Professional Services

- **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

Melt Shop and Primary Operations – Falk Professional Services

- 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
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- **Conveyor Systems**
 - Chain Conveyors
 - Walking Beam Conveyors
 - Scale Weighing Equipment
 - Automatic Banding Equipment
 - Coil Marking equipment
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- **Overhead Crane System**
 - Rail Alignment Survey

Melt Shop and Primary Operations – Falk Professional Services

- 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**