Falk Professional Services Library

- **Pickle Line Operation**
  - Bridle Rolls Alignment
  - Tank Roll Elevations
  - Looping Car and Separator Rolls
  - Steering Unit Rolls Alignment
  - Centerline and Passline calculation and verification
  - Side Trimming
  - Side Trimmer knives
  - Table Rolls
  - Scale breaking – Levelers and Skin Pass Mills
  - Tension Reels
  - Strip Welding Machines – Butt and prep/overlap

- **Tandem Mill Operation**
  - Mill Post Liners – Backups, Bed Liners, Mae West
    - Skew, Lean, Twist, Wear, Machining
  - Mill Shoes
  - Passline Elevations and Centerline calculations and verification
  - Screw Downs / Worm Drives
  - Interstand Tensiometer Roll position and alignment
  - Side Guides centerline
  - Tension Reel Outboard Bearing Dynamic Position Survey
  - Shape System and roll coolant spray headers
  - Entry and Delivery End Equipment alignment

- **Continuous Annealing**
  - Furnace Centerline and Passline
  - Furnace Roll Elevations and Alignment
  - Bridle Roll Elevations and Alignment

- **Batch Annealing**
  - Coil Stack height
  - Inner cover alignment

- **Temper Mill / Skin Passing**
  - Liners
    - Skew, Lean, Twist, Wear, Machining
  - Mill Shoes
  - Passline and Centerline determination and verification
  - Interstand Tensiometer Roll position and alignment
Accumulator (Looping) Towers
- Carriage Level
- Roll alignment

Leveling Process
- Leveler Roll Alignment
- Bridle Roll Alignment
- Centerline and Passline determination and verification

Hot Dip Coating Lines
- Coating Weight Measuring Equipment Alignment

Electrolytic Coating lines
- Coating Weight Measuring Equipment Alignment

Side Trimming Process
- Side Trimmer Knives – 05aa1220
- Passline Rolls – 09aa0612

Quality Assurance And Quality Control – Sheet inspection Equipment
- X-ray - C Frame Equipment and alignment
- Quality Defect Detection System Camera Passline Rolls and Equipment alignment
- Shape Roll – Alignment
- Roll Crown Calculation with Graphics
- Wrap Angle Calculations

Roll Shop
- Work Roll and Back Up Roll Chocks
- Work Roll and Back up Rolls
- Roll Crown Calculation and Color Mapping Graphics
- Roll Grinder – Dynamic Operation alignment checks

Overhead Crane System
- Rail Alignment Survey
- Crane Bridge Square Check
- Crane Bridge Beam Camber Check
- Gearbox and Shaft Alignment Check
- Building Column Plumb Measurement
- Builder Girder beam
- Building Structure Defect Scans
Cold Sheet Mill and Finishing Operations - Falk Professional Services

- **Mill Stand Main Drives**
  - Gearing
  - Gearboxes

- **Rotating Equipment**
  - Motors Shaft Alignment
  - Motor Base Survey – Rotor and Stator location verification
  - Generators
  - Pumps
  - Gearboxes

- **Horizontal and Vertical Control Establishment**
  - Passline Calculations and field verification
  - Centerline Calculations and field verification
  - Benchmark and Monument Control installation

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

- **Detailed Laser Scanner Work of Existing Conditions**
  - Equipment Removal
  - Equipment Installation
  - Equipment Clash Detection
  - Large Crane Pick Placement and Movement
  - Operator Line of Sight

- **Establishment of Vertical and Horizontal Control**
  - Pass-line Establishment (Vertical)
  - Centerline Establishment (Horizontal)
  - Rolls
    - Location
    - Elevation
    - Skew
    - Wear
  - Dynamic Tension Reel Survey

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