

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

Cold Sheet Mill and Finishing Operations - Falk Professional Services

- **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

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- **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**