Sample projects include:

- Complete mill stand audits: window liners, bed liners, looper rolls, inter-stand rolls, guide boxes, entry guides, roll chocks, tension and payoff reels, mandrels
- Mill stand centerline, skew and lean
- Accumulator tower and furnace roll alignment for continuous process lines
- Coating pot equipment and tank rolls
- Roll profile and wear studies
- Reheat furnace refractory wear studies
- Dynamic mandrel and reel measurement
- Precision equipment verification, installation, and alignment
- Establish baselines for mill performance and track deviations from standards
- Identification of predictive maintenance best practices

When rolling mill equipment deviates from planned alignment specifications it can have significant impact on productivity and product quality. Falk PLI works with each client and piece of equipment to determine acceptable operating parameters and custom designs reports reflecting equipment compliance.

Falk PLI utilizes a combination of laser scanning, laser tracking, and advanced methodology to provide the most comprehensive approach to rolling mill maintenance. These laser technologies allow 3D measurements to be taken on objects more quickly and accurately; yielding excellent statistical redundancy and repeatability.

“3D laser scan models of the furnace hearths are used to identify wear patterns and weak points in the hearth construction. This valuable information has contributed to a significant reduction in furnace tears in the subsequent 12 months.”

– ArcelorMittal Research