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# **INSTALLATION ENGINEERING**

## **PROJECT REFERENCE LIST**

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### **MELT SHOP:**

- BOF Dart Insertion Equipment system design, supply, installation engineering, controls & automation.
- Installation engineering of caster runout & furnace charge area improvement project
- Installation engineering for new equipment foundations and buildings foundations for Titanium Melt Shop Facility.
- Design and Detail Drawings of Cooling Tower Foundations and Reservoir
- Installation engineering for EAF Baghouse, including all ducting, support bridge, building modifications, structures & foundation design.
- Civil, electrical and utilities installation engineering of new melt shop caster project including buildings and foundations.
- Civil, electrical & utility installation engineering for new caster runout cooling table

### **SHAPE ROLLING:**

- Complete installation engineering, project management and site supervision for new eight stand roughing mill including foundations, piping, electrical and mechanical.
- Finishing mill upgrade installation engineering
- Engineering evaluation, capital budget, design & installation engineering for new cold shear and bar handling system
- Engineering study & Installation Engineering for adding a second Wire Tying Machine
- Layout, capital cost & Installation Engineering for Quench and Tempered Rebar Water Supply System
- Installation Engineering for Cooling Bed extension.
- Installation engineering of new warehouse and buildings
- Installation engineering for new roll shop lathe.
- Installation Foundation engineering for new Chopping Shear
- Installation engineering & Construction management for Rolling Mill Modernisation.
- Installation engineering of new foundations for Rolling Mill, Roll Shop, Set-up Bay, Motor Room and Cooling Bed.
- Civil Engineering and Design of Foundation for adding a crop shear to existing mill train
- Installation Engineering for New Bar Mill Finishing End including building and foundation designs.

- Installation engineering for major Structural Mill upgrade including reheat furnace, rolling mill, electrical rooms, cooling bed & finishing end. Unique phased approach allowed for complete mill replacement with only 3 maintenance outages over a 3 year period. Services included project management, construction management, cost & budget control, scheduling, purchasing, expediting, quality control as well as multi disciplined project engineering.
- Civil, utility mechanical & electrical installation engineering of Rod Mill upgrade including project management & construction supervision.
- Civil, mechanical, electrical and utilities installation engineering for new Reversing Rougher outlet including new building, motor room, foundations and all utility systems.
- Installation engineering, project management and construction supervision of 3-hi roughing & cross country Mill upgrade project.
- Installation engineering of Hook conveyor system including design of new building and foundations.
- Installation engineering, project management and construction supervision for 3-hi cross country mill & finishing end modernization project.
- Installation engineering, cost management, project management and construction supervision for a Turnkey structural mill & cooling bed upgrade project.
- Installation engineering, foundation design and construction supervision for adding a flying divide shear system to an existing mill line.
- Utilities & Electrical Installation Engineering for new Bar Mill
- Installation engineering, cost management and construction supervision for mill Bar mill common drive separation project.
- Installation engineering, steelwork & foundation design for Weigh scale system
- Phased upgrade for Rail Mill material handling equipment including roller tables, transfers, sideguides and manipulators.
- Civil, mechanical & utilities installation engineering of a complete 2-hi Titanium Reversing Blooming Mill Complex including project management and construction supervision.
- Civil, mechanical & utilities installation engineering of a complete 2-hi Reversing Titanium Finishing Mill Facility including project management and construction site supervision.
- Installation engineering for bar mill finishing end revamp including project management and construction site supervision.
- Installation engineering, project management and construction site supervision for 800 ton cold shear replacement project including developing a schedule to minimize shutdown duration.
- Installation Engineering and Design of Cold Shear foundations.

- Installation engineering for complete rebuild of large rounds mill finishing end saw line.
- Civil, mechanical, electrical and utilities installation engineering of revamped small structural mill project including project management, budget management and construction site supervision.
- Civil, electrical & utility installation engineering for new 3-roll block system including planning to minimize shutdown requirements and equipment and barriers required to allow construction during operation.
- Civil, electrical & utility installation engineering for New Reheat Furnace
- Civil, electrical & utility installation engineering for replacement of new rod block water boxes and rod gauge
- Civil, electrical & utility installation engineering for a complete bar mill complex utilizing patented technologies from steelmaking through to rolling & finishing. Included site selection, infrastructure engineering, building design & site layout

**FLAT ROLLING:**

- Cold Mill - 80" Temper Mill Automated Coil Pup Removal System design, supply, installation engineering, foundation design, automation & controls.
- Installation engineering for a Pickle Line Secondary Coil Payoff System.
- Supply of 4-hi 80" wide temper mill, with hydraulic gap control as well as roll bending system.
- Civil, mechanical, electrical and utilities installation engineering for aluminum cold rolling strip mill upgrade project.
- Preliminary engineering for replacement of once through process cooling water system with new closed loop process water treatment, filtration and cooling.