



## Project Reference list — INSTALLATION ENGINEERING

COMPANY	FACILITY	PROJECT	DESCRIPTION
<b>Republic Engineered Products</b>	Canton, Ohio	Meltshop upgrade	Installation engineering for a new Flex Caster, Ladle furnace, Vacuum Degasser, Alloys system and auxiliary services. Associated electrical equipment: Power distribution, Variable speed drives, PLC controls, Instrumentation, Operator pulpits. Scope included layouts, equipment location drawings, trays and conduit runs, cable schedules, termination lists and installation specification. Site support during installation phase.
<b>AltaSteel</b>	Edmonton, Alberta	New roughing mill	Installation engineering for the implementation of In-Line roughing mill. Associated equipment: Conveyors, transfers, descaler, lubrication system, pinch rolls, eight mill stands, shear. Scope includes design of power distribution system, generation of layouts, equipment location drawings, trays and conduit runs, Cable schedules, termination lists and installation specifications.
<b>Republic Engineered Products</b>	Lorain, Ohio	10" Rolling Mill	Engineering for the installation of two roughing mills and upgrade of two existing mill stands and related auxiliaries. Design of power distribution system, PCR room and interface with existing controls.
<b>Preisman Technology Inc.</b>	Republic Engineered Products Canton, Ohio	Meltshop fume system upgrade	System design and installation engineering to modify operational strategy of dampers and booster fan.
<b>Element Aluminum</b>	Jackson, Tn	New Aluminum Mill	Conversion of the existing industrial facility to a new mill: two new Mill stands, shear, stacker, water cooling systems and all related auxiliary: New 13.8KV distribution, extension of low voltage systems, new drives and controls.
<b>Perryman Company</b>	Titanium rolling mill, Houston Pennsylvania	Phase 2 – Mill upgrade	Installation of the new Kocks Mill and related services. Relocation of the existing shear, and coiler. Upgrade of the existing power distribution, new drives, control and auxiliary systems, building extension, services. Supply of the switchgear and MCC's.
<b>Nucor Steel</b>	Auburn, New York	Reheat furnace and caster run-out	Installation engineering for a new reheat furnace, charging and discharging systems, auxiliary equipment, new electrical rooms. Installation engineering for caster run-out and cooling bed.



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<b>Nucor Steel</b>	NN2 bar mill Norfolk, Nebraska	Mill upgrade	Installation engineering for a replacement of 16 stands with new Siemens AC mill drives and control system. Power distribution upgrade, new PCR room, Drives, interface with the existing cooling bed drives and controls.
<b>Tower Automotive</b>	Toronto, Ontario	Power System Upgrade	Detail engineering and specification for installation of a 1300KVAR Capacitor Bank for Plant Power Factor correction.
<b>Stelco Mc Master</b>	Contrecoeur, Quebec	New Bar Mill	Installation engineering for a new bar mill, including power distribution system, AC mill drives, shears and operator interface. Equipment supplied by Siemens.
<b>Gerdau Ameristeel (Co-Steel Sayreville)</b>	Bar Mill Sayreville, New Jersey	Bar Mill Upgrade	Addition of mill stands, new ACVF mill drives, upgrade of existing DC drives, new electrical room, new pulpit and operator console, modifications to power distribution system, new mill control system. Equipment: Reliance AC drives, Automax and Sigma
<b>Gerdau Ameristeel (Co-steel Raritan)</b>	Rod Mill Perth Amboy, New Jersey	Mill Upgrade	Conversion of roughing and intermediate mill drives from DC to AC. Replacement of complete mill master reference system. New electrical room, 34.5KV power distribution system, PCR Room, electrical rooms, pulpit and operator consoles. Equipment: Siemens AC motors and AC drives, Siemens PLC and MMI.
<b>Gerdau MRM Steel Inc (MRM)</b>	Melt shop Selkirk, Manitoba	Baghouse modifications	System design, programming and installation engineering for the upgrade of baghouse including new VF drive powered booster fan.
<b>Auburn Steel</b>	Bar Mill Auburn, New York	Mill upgrade	Installation engineering for the addition of new mill stands and shear. Power distribution, drives and control systems
<b>Gerdau Ameristeel Whitby (Co-Steel Lasco)</b>	Medium section mill Whitby, Ontario	New cooling bed	Installation engineering of power systems, drives and control system for a new cooling bed



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<b>Gerdau Ameristeel Whitby</b>  <b>(Co-Steel Lasco)</b>	Medium section mill Whitby, Ontario	Mill upgrade	Phased implementation of the new equipment from the roughing mill to the finishing end. Specifications, budget and installation engineering for new mill stands drives, shears, straightener, transfer, cold shear, stacker and bundling. Power systems, drives and control systems. New and upgrade of the existing electrical rooms, pulpits, services.
<b>Mittal Canada</b>	Bar Mill Longueuil, Quebec	Mill upgrade study	Prepare specifications for the upgrade of rolling mill drives and control system
<b>Gerdau Ameristeel</b>  <b>(Florida Steel)</b>	Bar Mill Charlotte, N.C.	Finishing end upgrade	Specification, evaluation of suppliers and installation engineering for new finishing mill facility by Morgan-Pomini / Ansaldo. New Cooling bed, shear, straightener, stacker, auxiliary services. Power systems, drives, controls, electrical rooms and pulpit.
<b>Gerdau Ameristeel Whitby</b>  <b>(Co-Steel Lasco)</b>	Bar mill Whitby, Ontario	Mill upgrade	Upgrade of the existing GE drives with Reliance drives. Upgrade of power distribution New transformers, new pulpit.
<b>Perryman Company</b>	Titanium rolling mill, Houston Pennsylvania	New Mill,	Green field mill – building services, 13.8KV and 480V distribution, MCC's, transformers, Quad and Kocks Mill drives and control systems, electrical rooms, pulpit, control stations, Supply of all power, drives and control equipment
<b>Bayou Steel</b>	Harriman, TN	Mill Upgrade	New roughing Mill drives, control systems, new billet charging system. Turnkey project.



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<b>Gerdau Ameristeel Whitby (Co-Steel Lasco)</b>	Bar mill Whitby, Ontario	New roll grinding machine	Installation of the machine electrical equipment and services