





Output Capacity: 52.1-Tons/Hour, 400,000-Tons/Year, Slab Capacity\* 3.5" to 14" Thick, 32" to 60" Wide, 70' to 120' Long; Finished Product: .1875" to 6" Thick, 48" to 120" Wide, (1) 1993 Kvaerner Metals Plate Mill Automation Control Package, Equipped as Follows: **FURNACE:** (1) Mesta Double Rack & Pinion Pusher, (1) Mesta Un-Piler, (1) Amsler Morton Gas-Fired 3-Zone Pusher Type Reheat Furnace, (**Upgraded Controls 1998**), 8-Rails, Charge and Discharge Doors, Output: 160-Ton/Hour, Furnace Size 23' Wide X 90' Long, (30) Zone Burners, Operating Temperature 2375°F, Soak Zone, Top and Bottom Intermediate Zone, Top and Bottom Primary Zone, Applied Process Furnace Controls, Comac Digital Readouts, (4) Personal Computers, Cameras and Video Monitor, Hotwell Pump, Coldwell Pump, Control Room, (2) Furnace Exit Bumpers, (2) Accumulators, (1) Cooling Tower, (1) Mesta 65' Independently Driven 28-Roll Furnace Run-Out Table, Roll Size 15-1/2" Diameter X 80", Rolls on 28' Centers, **ROUGHER:** (1) Mesta 42' Independently Driven 18-Roll Rougher Approach Table, Roll Size 15-1/2" Dia. X 80", Rolls on 28' Centers, (1) Set Mesta Rougher Entrance Front & Rear Rack & Pinion Side Guides, (1) Mesta 48' X 134' Two-High Reversing Roughing Mill, Westinghouse 4,000-HP Reversing DC Mill Motor, 80 to 160-RPM, 800-Volts, 4100-Amps, 720,000-Ft. Lbs. Torque from 0 to 80-RPM, (1) GE 1000-HP Motor Generator Set, 2300-Volts, 985-KVA, 1200-RPM, with (3) DC Generators, (1) 275-KW, 1100-Amps, (1) 375-KW, 1500-Amps, (3) 50-KW, 300-Amps, All (3) 475/250-Volts, In-Floor Roll Changing Cart, Joystick Control, (1) Mesta 32' Independently Driven 14-Roll Rougher Approach Table, Roll Size 15-1/2" Dia. X 80", Rolls on 28' Centers, (1) Set Mesta Rougher Exit Front & Rear Rack & Pinion Side Guides, **VERTICAL EDGER:** (1) Mesta Vertical 2-Roll Bottom Driven Edger Stand, Westinghouse 750-HP Reversing DC Mill Motor, 90 to 360-RPM, 700-Volt, 880-Amps, 120,400-Ft. Lbs. Torque From 0 to 84-RPM, (1) General Electric 1000-HP Synchronous Motor Generator Set, 2300-Volts, 985-KVA, 1200-RPM, with (1) 200-KW DC Generator, 475/250-Volts, 800-Amps, (1) 150-KW DC Generator, 475/250-Volts, 1500-Amps, (3) 75-KW DC Generators, 475/250-Volts, 300-Amps; (2) Entry and Exit Rolls, Hydraulic Roll Adjustment, (1) Mesta 42' Independently Driven 18-Roll Edger Exit Table, Roll Size 15-1/2" Diameter X 132", Rolls on 28' Centers, (2) Mesta Independently Driven Run-Out Tables, (1) 37' 16-Roll, (1) 42' 17-Roll, Both With Roll Size 15-1/2" Diameter X 132", Rolls on 28' Centers, (1) 5-Chain Cross Transfer Conveyor, **PLATE MILL:** (1) Mesta 32' Independently Driven 14-Roll Finisher Front Table, Roll Size 15-1/2" Diameter X 132", Rolls on 28' Centers, (1) Set Mesta Finisher Entrance Front and Rear Rack and Pinion Side Guides, (1) Mesta 39' X 59' X 134' Four-High Reversing Finishing Mill, with (2) General Electric 5000-HP DC Motors, 40 to 100-RPM, 700-Volts, 5830-Amps, with (1) General Electric 12,000-HP Motor Generator Set, with (4) General Electric 4000-KW DC Generators, 700-Volt, 2857-Amps; (1) General Electric 1000-HP Synchronous Motor Generator Set, 2300-Volts, 985-KVA, 1200-RPM, with (1) 200-KW DC Generator, 475/250-Volts, 800-Amps, (1) 375-KW DC Generator, 475/250-Volts, 1500-Amps, (1) 60-KW DC Generator, 475/250-Volts, 200-Amps, (2) 50-KW DC Generators, 475/250-Volts, 200-Amps; (1) General Electric 1000-HP Synchronous Motor Generator Set, 2300-Volts, 985-KVA, 1200-RPM, with (1) 150-KW DC Generator, 475/250-Volts, 600-Amps, (1) 375-KW DC Generator, 475/250-Volts, 1500-Amps, (2) 50-KW DC Generators, 475/250-Volts, 200-Amps; In-Floor Roll Changer, (3) Cardox Fire Control Systems, Westinghouse and General Electric Motor Controls, Kvaerner Metals Plate Mill Automation Controls, Modular Computer Control Room; (1) Set Mesta Rougher Exit Front and Rear Rack and Pinion Side Guides, (1) Mesta 28' Independently Driven 10-Roll Rear Table, Roll Size 15-1/2" Diameter X 132", Rolls on 28' Centers, (3) Mesta Finisher Run-Out Tables, (1) 32' 17-Roll, (1) 39' 13-Roll, (1) 78' 26-Roll, All (3) With Roll Size 15-1/2" Diameter X 132", Rolls on 36' Centers, **LEVELER:** (1) Mesta 39' 13-Roll Leveler Approach Table, (2) 300-HP DC Motors, Roll Size 15-1/2" Dia. X 132", Rolls on 36' Centers, (1) Mesta 9' X 10-1/4' X 134' 12-Roll Leveler Stand, with X-Ray **DESCALING:** (1) Descaling Stand, with 2000-HP Pump, (1) General Electric 5000-HP Synchronous Motor Generator Set, 13,800-Volts, 4830-KVA, 720-RPM, with (2) 1600-KW DC Generators, 800-Volts, 2000-Amps, (1) 1200-KW DC Generator, 700-Volts, 1714-Amps, **COOLING AND TRANSFER TABLE:** (1) Mesta 98' 28-Roll Finisher Run-Out Table, Roll Size 15-1/2" Diameter X 132", Rolls on 42' Centers, (1) 117' X 100' Grated Cooling Table, Roll Size 15-1/2" Diameter X 132", Rolls on 42' Centers, (1) Mesta 95' 29-Roll Reject Table, Roll Size 15-1/2" Diameter X 158", Rolls on 36' Centers, (1) Mesta 101' 23-Roll Run-Out Table, Roll Size 15-1/2" Diameter X 132", Rolls on 42' Centers, (1) Mesta 91' 30-Roll Run-Out Table, Roll Size 15-1/2" Diameter X 130", Rolls on 42 and 28' Centers, **PLATE SHEAR:** (1) Mesta 49' 14-Roll Shear Approach Table, Roll Size 15-1/2" Dia. X 130", Rolls on 42' Centers, with Clamping, (1) Continental 150" End Cut Plate Shear, Hydraulic Holddowns, Air Cushions, Plate Pusher, Kicker, Plate Aligner, Video Camera and Monitor, (1) Mesta 1-1/2' X 24' Scrap Shear, with Gravity Roller Conveyor, (1) Mesta 24' 8-Roll Shear Exit Table, Roll Size 15-1/2" Dia. X 109", Rolls on 36' Centers, (1) Mesta 60' 20-Roll Run-Out Table, Roll Size 15-1/2" Diameter X 109", Rolls on 36' Centers, (1) Skid Table, with 5-Drag Chains, Table Size 31' X 56', **EDGE TRIMMER:** (1) Mesta 66' 19-Roll Trim Stand Approach Table, Roll Size 15-1/2" Diameter X 132", Rolls on 42' Centers, with Plate Clamp, (1) Rail Mounted Traveling Head Plate Clamp, (1) Mesta 1-1/4' X 120" Edge Trimmer Stand, 200-HP Motor, Roller Side Guides, Qualimatix Laser, Trimmer FPM Digital Readout, (1) Longitudinal Travel Speed Digital Readout, Scrap Chopper Speed Digital Readout, Autotech Model M1890S Programmable Selsyn Indicator-Decoder, Digital Temperature Indicator, National Electronics Model NL214 13" Kilo-Ohms Video Monitor, Personal Computer, (2) Horizontal Knife Clearance Gages, (2) Horizontal Gap Gages, Horizontal Knife Adjustment, Scrap Conveyor, Trimmer Run-Out Table, (1) Mesta 78' 26-Roll Exit Table, Roll Size 15-1/2" Dia. X 122", Rolls on 36' Centers, **PLATE SHEAR:** (1) Mesta 54' 18-Roll Shear Approach Table, Roll Size 15-1/2" Dia. X 122", Rolls on 36' Centers, (1) Continental 150" End Cut Plate Shear, Hydraulic Holddowns, Air Cushions, Hydraulic Plate Pusher, Plate Aligner, Video Camera and Monitor, Autotech M1890 Programmable Selsyn Indicator-Decoder, Personal Computer, (1) Mesta 83' 25-Roll Shear Exit Table, Roll Size 15-1/2" Diameter X 122", Rolls on 40' Centers, with Plate Off-Load Unit, Bridge Type Traveling Head Push Off Unit, (2) 8-Chain Transfer Conveyor, Size 56' Long X 36' Wide, Elevating Piler, (1) Pinch Roll Stand, (1) Side Guides, With Drive, (1) 40' Gravity Roller Conveyor