



Samuel Nelson Technology, part of the family of Samuel companies, designs and builds complete process sections for hydrochloric acid (HCl) pickling lines for clients worldwide. Samuel Nelson Steel also owns and operates its own push-pull pickling and slitting line in Ontario, Canada to serve customers in the region.

# INNOVATOR IN PICKLING TECHNOLOGY

Samuel Nelson Technology offers design and operational expertise to support metal service centers and steel mills. Our technology group supplies new and retrofits existing processing sections to deliver more efficient pickling lines by increasing line speeds and decreasing consumption rates.

Samuel Nelson Technology's pickling lines produce finished steel which meet the highest quality requirements, such as those for exposed parts in the automotive industry. Our ability to not only design and supply but also to operate pickling lines to these standards makes us unique in the industry. We can also provide spare parts as needed for regular maintenance. On-going service and training is available from our experts in production, quality control, maintenance and safety.

## At a glance

- 82+ Process Sections Worldwide
- Consulting and Training Services
- Unique Pickling and Slitting Capabilities
- Improve Surface Quality
- Reduce Operating Costs

YOUR SUCCESS IS OUR BUSINESS

**SAMUEL**  
NELSON TECHNOLOGY



# YOUR STRATEGIC SUPPLIER

At Samuel Nelson Technology, we strive to provide our customers with exceptional quality and the latest technology. With a unique perspective as both operators and designers/manufacturers, we are an ideal choice as your strategic supplier of steel pickling equipment and services.

Our operations group offers a wide range of coil processing services including pickling, in-line slitting, side trimming and in-line roller leveling. These additional processing systems, as well as systems such as gauge recorders and surface quality inspection monitors, can be integrated into Samuel Nelson Technology's pickling line design to reduce equipment footprints and capital costs.

## INNOVATIVE SOLUTIONS

Samuel Nelson Technology invests in research and development to ensure efficiencies are identified and innovations are implemented both in-house and for our customers. For example, we designed the Turbo Tunnel™ pickling tank system — eliminating air space above the acid bath to reduce evaporation, heat loss and acid consumption.

Another example is our unique Flood Rinse™ system that allows line stops in excess of 6 minutes without rejectable staining. By ensuring the horizontal strip remains completely submerged from roll bite to roll bite, we eliminate staining from oxidation.

## ENVIRONMENTAL COMPLIANCE

We are continually looking for ways to improve upon our operations to ensure the well-being of our employees, customers and the communities in which we operate. Our efforts include using lower acid consumption in our pickling sections, using low water consumption scrubbers and designing innovative fume systems that consistently deliver HCl outlet concentrations below regulatory limits.

## VALUE-ADDED SERVICES

- Retrofits to meet or surpass regulatory standards
- Project Management
- Operator & Maintenance Training
- Quality & Safety Improvements
- Cost Savings Initiatives

© August 2018

**ABOUT US** Founded in 1855, Samuel, Son & Co. is a family-owned and operated, integrated network of metal manufacturing, processing and distribution divisions.

With over 4800 employees and 100+ facilities, Samuel provides seamless access to metals, industrial products and related value-added services. Supporting over 40,000 customers, we leverage our industry expertise, breadth of experience and the passion of our people to help drive success for North American business – one customer at a time.

[technology@nelsonsteel.com](mailto:technology@nelsonsteel.com)  
[nelsonsteel.com](http://nelsonsteel.com)

+1 905-662-1404

**SAMUEL**  
NELSON TECHNOLOGY