

PREMIER
INNOVATION
TUBULAR GOODS
MANUFACTURING
LINEPIPE STEEL
AUTOMOTIVE
HOT ROLLED STEEL
LAKE ERIE WORKS



U. S. Steel Canada
A Subsidiary of United States Steel

LAKE ERIE WORKS
Nanticoke, Ontario, Canada



INTRODUCTION



U. S. Steel Canada's operations consist of Lake Erie Works, a fully integrated steelmaking facility that has the capability of producing approximately 2.6 million tons of steel annually, and Hamilton Works, home to steel finishing facilities including the Z-Line, one of North America's premier zinc-coating lines. Together these facilities employ approximately 2,000 people.

Lake Erie Works is located in Nanticoke, Ontario, on the shores of Lake Erie, about a 30-minute drive south of Hamilton, Ontario. U. S. Steel Canada produces high quality steel that is used primarily in the North American automotive, construction, infrastructure, appliance, manufacturing and pipe and tube industries.

U. S. Steel Canada is a wholly owned subsidiary of United States Steel Corporation – one of the largest producers of flat-rolled sheet steel in the world. With a comprehensive portfolio of steel products, highly capable production facilities, and a strong commitment to quality, service and innovation, U. S. Steel is a leading manufacturer of value-added steel products and primarily serves the automotive, appliance, container, construction and energy markets in North America and Europe. U. S. Steel has an annual raw steelmaking capability over 29 million net tons.

Today, U. S. Steel remains proud of its past, but is focused on its future. As a leader in the increasingly competitive global steel industry, United States Steel Corporation is dedicated to delivering high-quality products to our customers and building value for all of our stakeholders.

QUALITY

U. S. Steel Canada's goal is to achieve superior product value and deliver world-class customer service. We will achieve these goals while operating our facilities safely and efficiently. Our objective is being met through continued improvements to workmanship and the implementation of global best practices at each stage of the manufacturing process. Formal quality assurance programs have been established and are implemented at every plant and at each phase of the operation.

U. S. Steel Canada's world class supplier position is bolstered by its partnership to pre-development programs with automotive customers. Additionally, as a wholly owned subsidiary of United States Steel Corporation, we have the benefit of access to best practices from around the globe. Utilizing these collective marketing, metallurgical, engineering and research resources – and our superior steelmaking capabilities – U. S. Steel Canada has developed several programs which improve quality, cost and performance. These improvements are the result of steel grade development, product design and manufacturing process optimization.

Steelmaking ISO9001 Certified
Hot Rolled Products ISO/TS16949 Certified
Lake Erie Works ISO14001 Certified







THE FACILITY



Built in 1980, Lake Erie Works is one of the newest and most capable integrated steel facilities in North America. The hot strip mill includes three slab reheating furnaces, a vertical edger and reversing rougher, a Coilbox, a six-stand finishing train, an advanced run-out table cooling system and two downcoilers.

Given the facility's central location in the Great Lakes region and its highly skilled workforce, Lake Erie Works can effectively integrate its products into customer supply chains for just-in-time delivery with a high degree of reliability.

Exhibit 1 : Lake Erie Works Facilities

Cokemaking	650,000 tons per year
Blast Furnace	2,400,000 tons per year
Steelmaking - Oxygen	2,600,000 tons per year
Vacuum Degassing	2,000,000 tons per year
Continuous Casting	Slabs - 2,600,000 tons per year
Hot Strip Mill	3,600,000 tons per year
Pickling	1,200,000 tons per year

U. S. Steel Canada has continually invested in upgrades at Lake Erie Works, maintaining its position as a world-class supplier of hot rolled products. With excellent gauge, crown and shape control, and first-rate uniformity in mechanical properties, Lake Erie Works products are supplied to markets such as automotive, pipe and tube, construction and steel service centres, as well as to other U. S. Steel facilities in Canada and the United States for further value-added processing.





HOT ROLLED STEEL PRODUCTS OVERVIEW



Lake Erie Works is a leading supplier to the North American market.

In recent years, approximately \$600 million has been invested in upgrades at Lake Erie Works, solidifying its position as a world-class supplier of hot rolled products.

With excellent gauge, crown and shape control, and first-rate uniformity in mechanical properties, Lake Erie Works' products are commonly supplied to other U. S. Steel facilities in Canada and the United States for further value-added processing as well as markets such as:

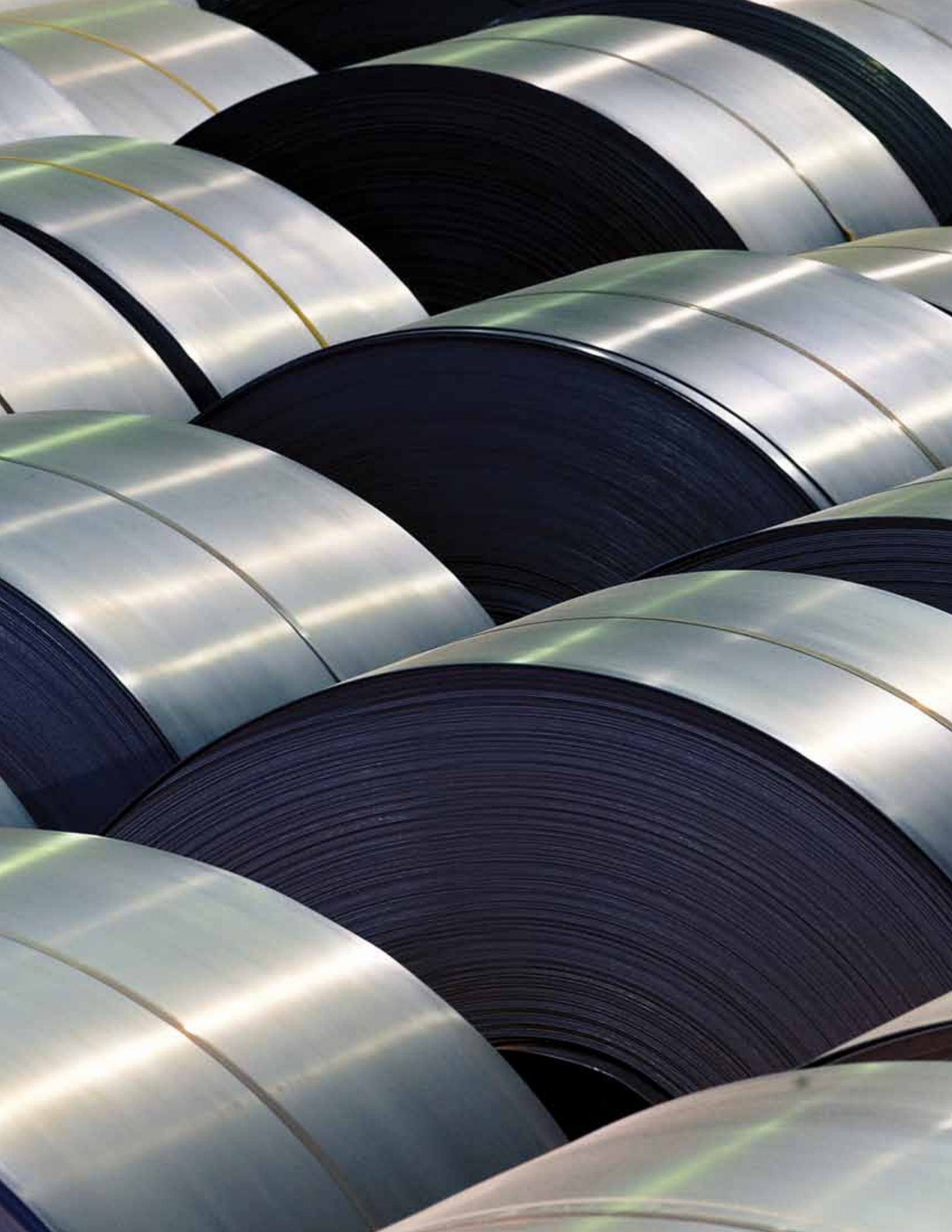
- automotive
- pipe and tube
- construction and steel service centres

Exhibit 2 : Grades Available

Formable Steels	ASTM A1011, ASTM A1018, SAE J2329, JIS G3131
High Strength Steels	ASTM A1011, ASTM A1018, JIS G3113, JIS G3134, SAE J1392, SAE J2340 up to 110 ksi min YS
Structural Steels	CSA G40.21
Composition Steels	ASTM A506, A507, A1011, A1018 SAE J403
Coil for Conversion to Pipe & Tube	API5L, API5CT, CSA Z245.1
Size Availability	Thickness*: 0.071" - 0.630" (1.8mm - 16.0mm) Max. Width*: 74.7" (1897mm)

*Some grades may not be available across full gauge and width range.





HOT ROLLED AUTOMOTIVE PRODUCTS



A New Generation of High-Performance Steels

Lake Erie Works produces high-performance steels for the demanding needs of global automotive companies with North American manufacturing and assembly facilities.

Our automotive portfolio features a new generation of hot rolled steels engineered to meet rising expectations from our customers.

High Strength Hot Rolled Steels

The application of hot rolled high strength steels permits the down-gauging of components without compromising material performance. In return, considerable cost savings can be realized from weight reduction.

Typical applications include wheel discs and rims, frames and other automotive components.

AHSS & UHSS Automotive Steels

Lake Erie Works provides advanced high strength steel (AHSS) and ultra high strength steel (UHSS) hot rolled substrate to Hamilton Works that is further processed for cold roll and coated automotive applications. These steels are up to 200ksi in tensile strength.

Exhibit 3 : Formable Hot Rolled Steels

These steels are suitable for severe forming, bending, and drawing.

Available Grades CS, DS, HRO, HR1, HR2, HR3, SPH270C, SPH270D, SPH270E

Size Availability Thickness: 0.071" – 0.630" (1.80mm – 16.0mm)*
Max. Width: 74.7" (1897mm)**

*Please inquire.

**Some grades may not be available across full gauge and width range.

Exhibit 4 : High Strength Hot Rolled Steels

- Available Grades**
- High Strength Low Alloy Steels (HSLA) with yield strength ranging from 35ksi to 100ksi, in 5ksi increments (ASTM A1011/ A1018, SAE J1392, SAE J2340)
 - SAPH 370, SAPH 440 (JIS G3113)
 - SPFH 540, SPFH 590* (JIS G3134)
 - Alloy grades – 10B25, 4130

Lake Erie Works is an experienced supplier of hot-rolled coils to the linepipe and oil country tubular goods (OCTG) markets. We offer excellent gauge and mechanical property consistency. Thermomechanical control processing (TMCP) is practiced to increase strength and toughness.

Special Features

- Excellent gauge control
- Consistent mechanical properties
- 1065 pounds per inch of width (PIOW) coil size available
- Direct rail capability for distribution across North America
- On-site Charpy testing (800J capacity tester)
- Drop Weight Tear Testing available at our Hamilton Works

Linepipe Steels

Advanced steelmaking facilities and a world-class hot strip mill enable Lake Erie Works to supply linepipe steel characterized by superior quality and low temperature toughness (-45°C) for both sweet and sour service applications. Severe sour service products are also available*.

Lake Erie Works produces clean steel with consistent chemistry control for stringent linepipe specifications using an advanced Ladle Treatment Station (LTS) and an RH-OB vacuum degasser. Ultra-low sulfur contents can be achieved for HIC-sensitive applications. Excellent internal quality is ensured through regular macro-etch checks of slabs and gap-sled measurements of the casting strands.

Oil Country Tubular Goods

OCTG products include skelp for oil and natural gas well casing and tubing. High quality steel is required for drilling in cold regions since low temperature toughness, weldability, and fracture resistance are critical.

LINEPIPE STEEL PRODUCTS



Exhibit 5 : Linepipe Steels

Available Grades

- API5L: X42, 52, 56, 60, 65, 70, 80*
- CSA Z245.1-02: 290, 359, 386, 414, 448, 483, and 550
- HSLA with 75, 80, and 100ksi minimum YS

*Please inquire

Exhibit 6 : Oil Country Tubular Goods

Available Grades**

API5CT: H40, J55, L80, P110

**Please inquire for higher-strength grades



690



AMC 100 100 000

DANGER
MOVING
EQUIPMENT



U. S. Steel Canada

A Subsidiary of United States Steel

Lake Erie Works
U. S. Steel Canada
General Delivery
Nanticoke, Ontario
N0A 1L0

Hamilton Works
U. S. Steel Canada
386 Wilcox Street
Hamilton, Ontario
L8N 3T1

Email Contact: CanadaSales@uss.com