

Structural Steel & Misc Metal's, and Pre-Engineered Steel Buildings



EPSCA
ELECTRICAL PROFESSIONAL SOCIETY OF CANADA



EN 1090-1



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CSA A660



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Steel & Misc Metal Fabrication

TCS
group

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TRULY CANADIAN
OWNED & OPERATED
COMPANY

STRONG AND ENGINEERED SOLUTIONS FOR MOST TYPES OF BUILDINGS



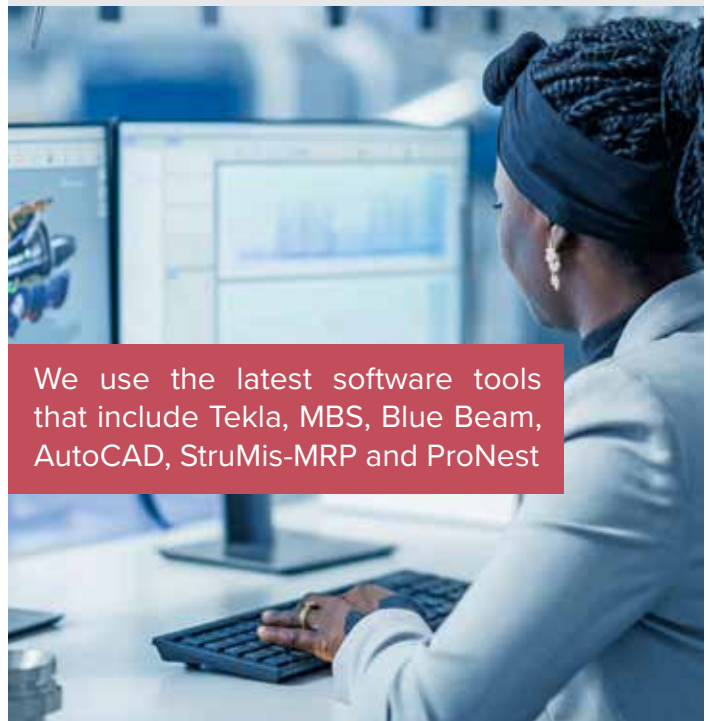
TWI FOODS - Etobicoke

In the Toronto area, showcasing the erection and installation of a 20,000 sq. ft. Norsteel building, manufactured by The TCS Group, as a warehouse addition.

Miscellaneous metals are essential metal components that support a building's function and finish, but are not part of the primary structural steel. This includes custom-fabricated items like stairs, railings, handrails, ladders, and other architectural or functional metalwork. Through expert metal fabrication techniques such as cutting, bending, and welding, these components are precisely crafted to meet project specifications, adding both safety and visual appeal to any build.

Examples of Component Types:

- Bollards
- Shelf Angles
- Dock leveller support
- Lateral Support
- Overhead door jambs
- Elevator Pit Ladder
- Roof Access Ladders
- Ship ladders
- Ramp Guard
- Guard Rail
- Handrail
- Spiral stairs
- Egress Stairs
- Exit Stairs
- Sump Pit Frames
- Toe Guards
- Trench / Frames
- Vanity support
- Operable partitions
- Washroom partition
- Adult change table
- Lintel
- Fascia / Canopies



We use the latest software tools that include Tekla, MBS, Blue Beam, AutoCAD, StruMis-MRP and ProNest

**SAFE.
RELIABLE.
ROBUST.
LOCAL.**

The TCS Group is a trusted leader in Canadian-made structural steel manufacturing, miscellaneous metal fabrication, and pre-engineered buildings. With a strong commitment to quality, precision, and efficiency. We deliver tailored metal solutions that meet the needs of diverse construction and industrial projects across the country. All our products are proudly made in Canada, supporting local industries and ensuring reliable performance in even the most demanding environments.

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THE TCS GROUP HEAD QUARTERS

1341 Kerrisdale Blvd, Newmarket, ON L3Y 8Z8



55,000 SQ FT

HIGHLY AUTOMATED STEEL MANUFACTURING FACILITY.

Technical Steel Corp., a proud member of the TCS Group, delivers complete end-to-end solutions for Structural and Miscellaneous Steel supply and installation. With a fully integrated approach that includes steel design, engineering, detailing, fabrication, and installation, we ensure every project is handled with precision, efficiency, and reliability. Whether your build is commercial, industrial, or institutional, Technical Steel Corp. has the expertise and capacity to bring your vision to life — on time and on budget.



Equipment List >



Automation Robot System:
PythonX Beam Line

The **PythonX Beam Line** is an all-in-one robotic automation system that performs drilling, cutting, coping, slotting, notching, and marking on structural steel beams with exceptional precision. It delivers accurate and repeatable results, significantly reducing human error and rework. Capable of processing structural members up to ten times faster than traditional methods, the system greatly increases production efficiency while minimizing manual handling and setup—resulting in lower labour costs. Seamlessly integrating with detailing software, it enables a fully optimized workflow from design to fabrication. Its versatile capabilities allow it to handle a wide range of profiles, including beams, channels, tubes, and angles, making it a powerful asset for any modern steel fabrication facility.



Automation Robot System:
Yaskawa robotic Cell (Qty 2)

Our **Yaskawa robotic welding cell** features two fully automated stations designed to maximize productivity, consistency, and weld quality. These advanced robotic systems deliver precise, repeatable welds with minimal variation, significantly reducing rework and improving overall throughput. The dual-station setup allows for continuous operation—while one station is actively welding, the other can be loaded or unloaded—resulting in minimal downtime and increased efficiency. Integrated safety systems and intuitive controls ensure operator safety and ease of use, while the flexibility of the Yaskawa robots allows them to handle a variety of parts and complex weld configurations. This cutting-edge solution enhances both the speed and quality of our welding operations, supporting high-volume production with exceptional reliability.

A composite image showing a plasma cutting system. The left side shows the orange and black structure of the HD Rino Hyperion Cutter with a torch head positioned over a metal workpiece. The right side shows a close-up of the torch cutting through a metal plate, creating a bright orange and yellow spark shower.

Plasma Cutting System: **HD Rino Hyperion Cutter**

The **HD Rino Hyperion Edge plasma cutter** is a high-definition cutting system engineered for precision, speed, and durability in steel processing. Capable of delivering clean, accurate cuts on a wide range of materials and thicknesses, it enhances both quality and productivity in fabrication. With advanced torch technology and motion control, the Hyperion Edge ensures consistent performance with minimal edge clean-up required. Its robust design supports high-volume production while maintaining tight tolerances, making it ideal for structural steel, plate work, and custom components. This powerful system not only accelerates cutting operations but also integrates seamlessly into our automated workflow, supporting efficient and cost-effective manufacturing.

A photograph of a large yellow Munck overhead crane in a factory setting. The crane's main beam is visible, with the 'MUNCK' logo and '10' ton capacity clearly marked. The background shows the industrial structure of the facility with steel beams and overhead lighting.

Material Movement Systems **10 Ton Munck Cranes (Qty 6)**

Our facility is equipped with six **10-ton Overhead MUNCK Cranes**, providing robust and efficient material handling capabilities across all stages of steel processing and fabrication. Designed for heavy-duty lifting, these cranes ensure safe and seamless movement of large and bulky structural components, reducing manual handling and improving workflow efficiency. Their high load capacity and wide coverage allow for smooth transfer of materials between workstations, enhancing overall productivity and minimizing downtime. With precise controls and dependable performance, the MUNCK cranes are a critical part of our operation, supporting everything from raw material intake to final assembly and loading.



Additional Stations Steel Manufacturing

- Baykal MGHv3113 Hydraulic Swing Beam Shears Station
- Baykal MAPH3 4200 Hydraulic CNC Press Break
- Hydemch S-20A Automatic Band Saw
- Fab Master Steel Cutting Shear and station
- Paint booth station

Additional Machine Investments: Steel Manufacturing

We've made additional investments in advanced machinery to further enhance our production capabilities, improve efficiency, and support the growing demands of our clients.

Additional Certification & Compliance for the highest standard and confidence.

At TCS, our industry-leading certifications reinforce our commitment to safety, quality, and compliance.

ISO 45001 – Occupational Health & Safety
Ensures proactive risk management and a safety-first culture.

Benefits: Fewer incidents, higher morale, full compliance. Clients trust our internationally recognized safety standards.

ISO 9001 – Quality Management
Guarantees a structured, customer-focused approach.
Benefits: Fewer errors, improved performance, greater satisfaction. Consistent, high-quality results every time.

COR (Certificate of Recognition)
Third-party validation of our safety excellence.
Benefits: A requirement for many high-risk sector contracts. Trusted to meet Canada's highest safety benchmarks.

CSA A660 – Steel Building Systems
Ensures compliance with Canadian fabrication standards.
Benefits: Guarantees structural integrity and reliability. Certified for high-performance, safe structures.

EN 1090 – European Compliance
Certifies structural steel and aluminum for the EU market.
Benefits: Ensures material traceability and welding excellence. Locally & Globally positioned for operational excellence.



HSQMS: Safety & Quality at Our Core

Our Health, Safety & Quality Management System (HSQMS) integrates safety, quality, and environmental compliance.

ISO 14001 – Environmental Management
Sustainable planning, waste reduction, proactive stewardship.

CSA N295/N299 – Nuclear Compliance
Prepares us for high-integrity, safety-critical projects.
Benefits: Essential for complex, regulated industries. Few match our compliance breadth—the TCS Group is pre-qualified and ready.

More than a contractor,
the TCS Group is a certified,
innovative, and safety-driven
construction partner. Backed by
international standards and a
commitment to sustainability, we
deliver precision-built,
future-ready solutions.

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Scaffold & Construction



Aluminum Manufacturing



Steel & Misc Metal Fabrication



Development & Land



TRULY CANADIAN
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COMPANY



AM-CAN PARTNER
FOR MUTUAL CROSS-BORDER
PARTNERSHIPS