



**Project No. 2**  
**COIL INSPECTION TROLLEY**

**CLIENT: MASCI**      **LOCATION: Cambridge, Ontario**



The client, a major automobile steel supplier, has a steel coil inspection and slitting line (previously installed by TCE). The coils must be inspected for defects prior to delivery to the end user. Inspectors typically do a visual check, from platforms situated beside the moving steel, of the underside of the steel strip.

The client required a quality assurance operator to be safely inserted into a vertical inspection tower directly in the path of the moving steel strip, for closer visual observation of the underside of the coil.

A tower guides the steel strip up, over and down in front of the operator at line speeds of 300 to 500 feet per minute; strobe lighting highlights any defects in the surface of the coil. With the inspection trolley in position, the operator has a full view of the underside of the coil as it passes down in front of him. The trolley is guided into position by remote control via a track embedded in the floor and is interlocked with the inspection line operating PLC to ensure complete safety. The inspection trolley is designed to protect the operator from a line or coil failure at any time during inspections. Access and egress from the trolley's spacious platform to ground level is provided from either side. All line controls and inspection lighting panels are installed adjacent to the operator for efficient and ergonomic access.

TCE completed all engineering design, steel fabrication and installation of mechanical and electrical controls for this design-build project at its Hamilton manufacturing and fabricating facility. All components and functions were tested and commissioned on-site prior to shipping and installation.



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