RYCHIGER

Automotive solutions streamlined

Over 25 years in Automotive Automation 25

rychiger.com/automotive

RYCHIGER

About us

Rychiger Canada specializes in providing turnkey automation solutions designed to maximize your return on investment (ROI) while minimizing operational footprint.

Every automation solution is meticulously designed, manufactured, installed, and serviced by Rychiger's team of experts. Our focus on attention to detail and technical support guarantees that our customers receive the highest quality of service throughout the project.

For over 25 years, we have built a reputation for excellence, amassing a vast library of cutting-edge technologies and innovative solutions. Our focus is on applying the right technologies to ensure optimal efficiency and effectiveness in your projects, no matter the scale or complexity.

Our process

1. Understanding your needs

We take the time to fully understand your project requirements, ensuring that our solutions align with your business goals.

2. Engineering

Our engineering team leverages its deep technical expertise to design robust and innovative automation solutions tailored to your specific needs.

3. Manufacturing

With precision manufacturing capabilities, we ensure that all components are produced to the highest standards, guaranteeing the reliability and longevity of our systems.

4. Installation & after-sales support

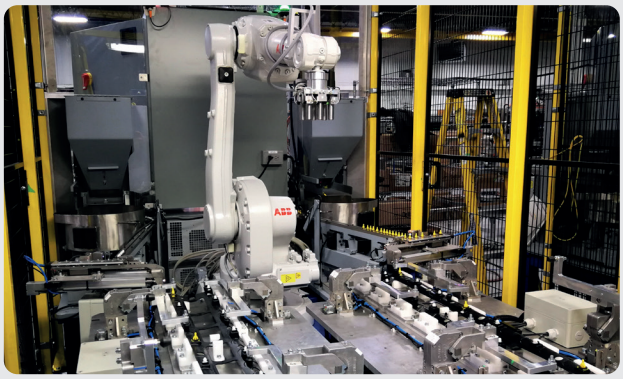
We provide end-to-end support, from installation to ongoing maintenance.
Our team is always available to ensure your system operates at peak performance.

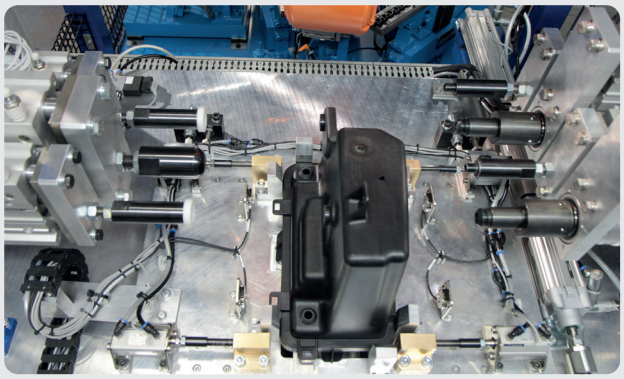
Our reach

We proudly serve clients across North America, including the United States, Canada, and Mexico.

ASSEMBLY AUTOMATION SOLUTIONS

RYCHIGER





Components assembly

Our custom-built machines are engineered to meet the most rigorous assembly standards. They are designed for installing a wide range of automotive components—including clips, grommets, compression limiters, and screws—across interior trims and exterior panels. This versatility enables seamless integration into various stages of automotive production.

Level of automation

- Fully automated systems
- Semi-automated machinery
- Single or multi-robot cell
- In-line or standalone

Product applications

- Instrument panels
- Center consoles
- Overhead consoles
- Door panels
- Glove boxes
- Armrests
- Exterior trim
- Interior trim
- Pillars

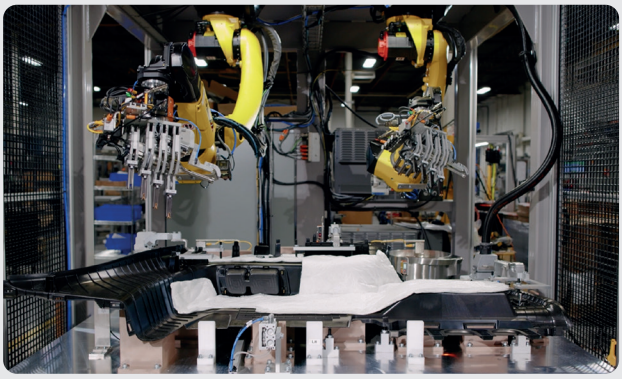
Our equipment provides

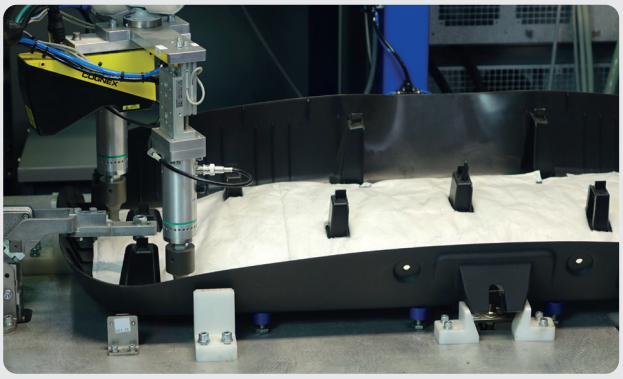
- Our modular system design supports various applications, optimizing resources and providing flexibility to seize new opportunities
- Can be reconfigured and re-program quickly to suit different products
- Deliver consistent, accurate positioning of components, minimizing the risk of misalignment or damage
- Full control of components presence during the cycle time and position
- Compact footprint, maximizing factory floor space and enhancing overall production efficiency
- Can be equipped with either bowl feeder or flex feeder with vision assist for sorting and feeding components

Partners: asyril

ASSEMBLY AUTOMATION SOLUTIONS

RYCHIGER





Ultrasonic welding and staking

We offer precise, cost-effective solutions for joining automotive components, ensuring clean connections and strong welds. These systems are backed by dependable, professional support to meet the highest industry standards.

Level of automation

- Fully automated systems
- Semi-automated machinery
- Single or multi-robot cell
- In-line or standalone

Product applications

- Interior panels
- Center consoles
- Door panels
- Trunk panels
- Instrument panels
- Air channels
- Leaf screen
- Spoilers
- Bumpers

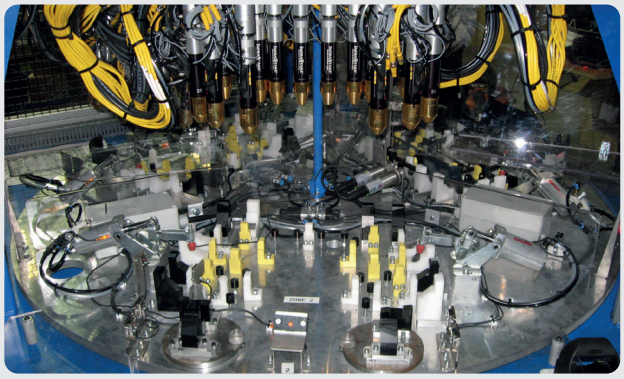
Our equipment provides

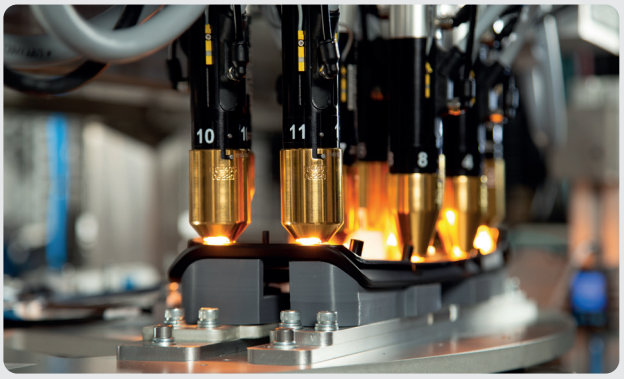
- Fast, clean, efficient, and repeatable process
- Process does not mark, scuff or damage “A” surface
- Produces strong, integral bonds while consuming very little energy
- Versatility and compatibility with various materials
- High reliability, long life, and consistent

Partners: TELSONIC ULTRASONICS · Herrmann Ultrasonics · SONICS

ASSEMBLY AUTOMATION SOLUTIONS

RYCHIGER





Infrared and heat staking

Our infrared staking systems ensure strong, consistent bonds, improving the durability and integrity of assembled products.

Level of automation

- Fully automated systems
- Semi-automated machinery
- In-line or standalone

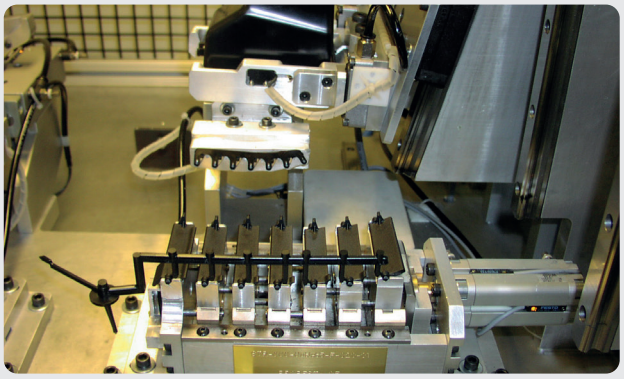
Our equipment provides

- A strong, tight, and aesthetic joints
- Non-invasive staking
- No vibration during the staking process
- High reliability, long life, and consistent, repeatable performance
- Best for PMMA, ABS, PC, PS, PC/ABS, PE, PP

Partners: EXTOL Improving plastic products

ASSEMBLY AUTOMATION SOLUTIONS

RYCHIGER



Complex assembly

Our ergonomic and high-performance assembly solutions are tailored to meet specific client needs and preferences, especially in complex assembly applications like air registers. These solutions ensure precision, durability, and efficiency, addressing the unique challenges of assembling intricate components while enhancing production flow and reducing cycle time.

Level of automation

- Fully automated systems
- Semi-automated machinery
- Single or multi-robot cell
- In-line or standalone

Product applications

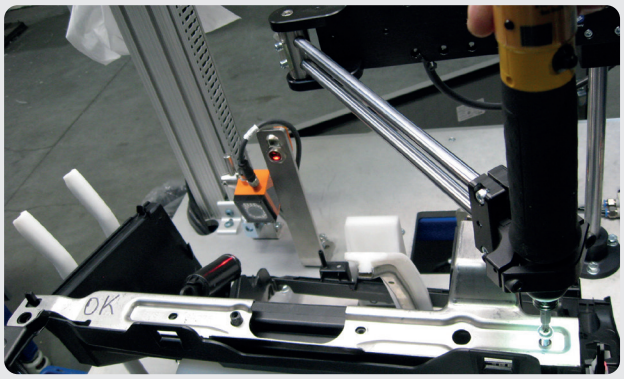
- Air registers
- ETC pedals
- Speakers

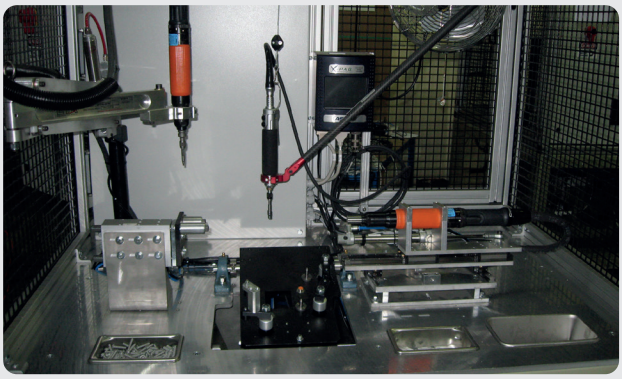
Our equipment provides

- Precise placement & alignment of air register components
- Optimized assembly processes, enhancing speed, accuracy, and adaptability
- Systems can accommodate a wide range of designs, providing clients with customizable solutions
- End-of-line testing of assembled parts to ensure all components function properly

ASSEMBLY AUTOMATION SOLUTIONS

RYCHIGER





Screw driving and fastening

Achieve perfect torque and alignment with every screw, bolt, rivet or nut, minimizing the risk of errors and ensuring consistent quality throughout the assembly process. This precision not only enhances product quality but also reduces rework and downtime, leading to increased operational efficiency.

Level of automation

- Fully automated systems
- Semi-automated machinery
- In-line or standalone

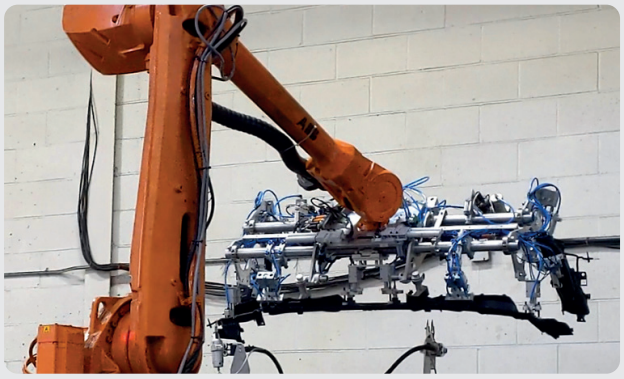
Our equipment provides

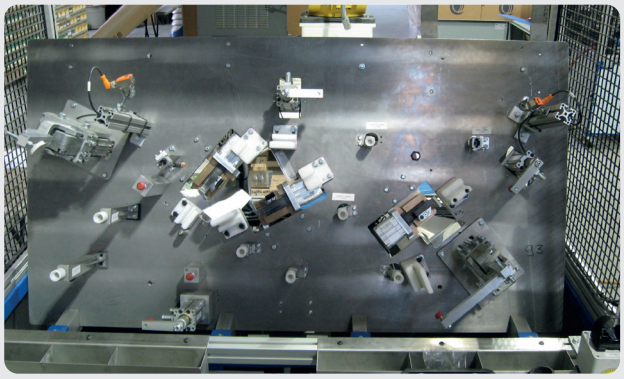
- Aligning components precisely before fastening
- Torque and angle control during the fastening process
- Log the torque data for each screw, allowing for traceability and quality control

Partners: Atlas Copco, ESTIC, STANLEY, DELTA REGIS Tools Inc.

PROCESS AUTOMATION

RYCHIGER





Degating

Rychiger Canada brings extensive expertise in ultrasonic knives, nippers, hot knives, routers, and custom tooling solutions. Our innovative techniques efficiently and reliably remove sprues, runners, and gates from molded plastic parts, streamlining production while boosting quality and efficiency.

Level of automation

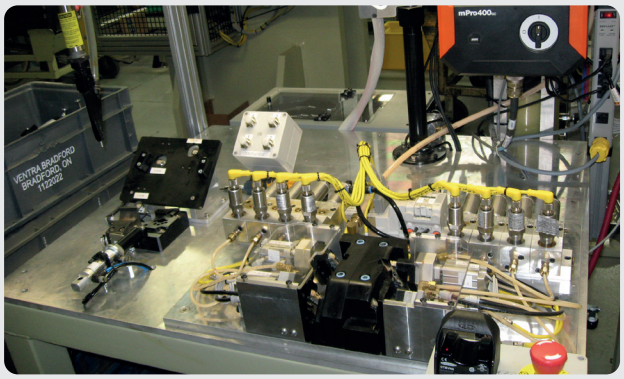
- Fully automated systems
- Semi-automated machinery
- Single or multi-robot cell
- In-line or standalone

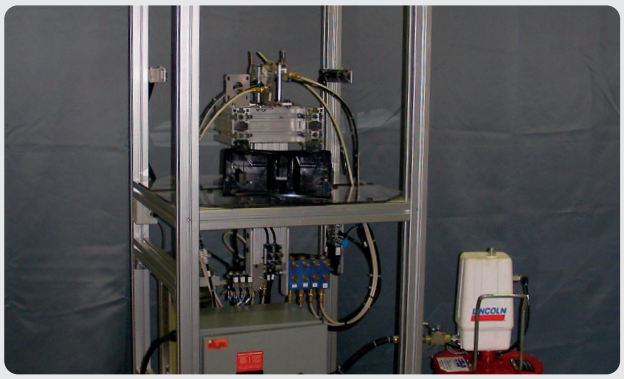
Our equipment provides

- Precise consistent degating function with minimal tolerance on cut
- Minimal cycle time
- Automated removal of degated parts from the cutting zone
- Vacuum suck debris during routing

PROCESS AUTOMATION

RYCHIGER





Grease application

Our automated and semi-automated precision technology guarantees consistent and accurate lubrication process.

Level of automation

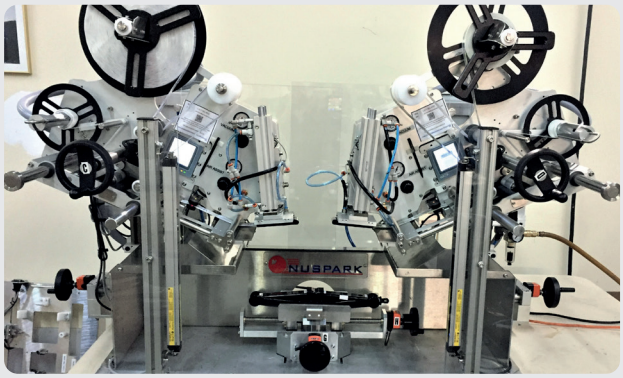
- Fully automated systems
- Semi-automated machinery
- In-line or standalone

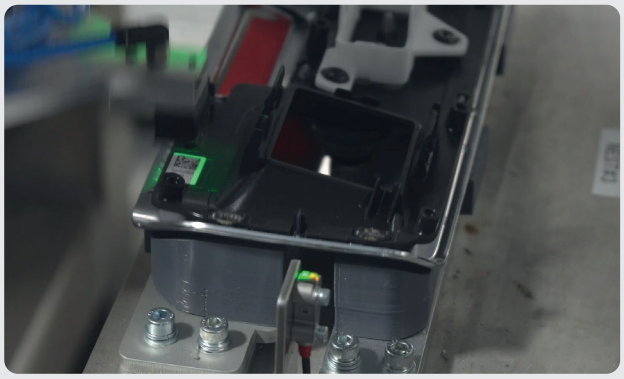
Our equipment provides

- Precise, consistent grease application minimizing waste and variability
- Enhanced production efficiency by reducing manual application time and contamination
- Improved worker safety by limiting exposure to grease and chemicals

PROCESS AUTOMATION

RYCHIGER





Label and tape application

Our systems are designed to meet the rigorous demands of the automotive industry by delivering consistent quality. From labeling complex parts to applying adhesive tapes for secure assembly our solutions optimize productivity while ensuring exact standards of precision and reliability.

Level of Automation

- Fully automated systems
- Semi-automated machinery
- Single or multi-robot cell
- In-line or standalone

Our equipment provides

- Precise alignment and application of labels and tape on critical components, improving product quality and accuracy
- High-speed application capabilities that reduce cycle times
- Reliable performance, even in challenging conditions

PROCESS AUTOMATION

RYCHIGER

Material handling

Our automated material handling systems are designed to optimize the flow of materials in warehouse and manufacturing environments. By leveraging advanced technologies, we enhance operational efficiency, reduce costs, and improve workplace safety.

Types of automated material handling systems

- Conveyor systems
- Gantry systems
- Robotic handling solutions
- Palletizing and de-palletizing robot
- Feeding integration

Level of automation

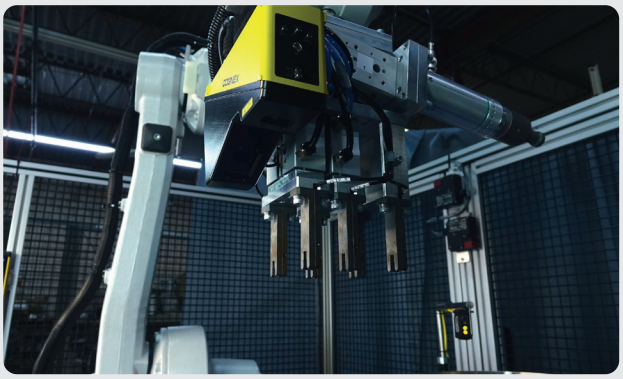
- Fully automated systems
- Semi-automated machinery
- Single or multi-robot cell
- In-line or standalone

Our equipment provides

- Streamlined warehouse and manufacturing operations, resulting in faster processing times and increased throughput
- A continuous flow of operations that minimizes downtime and eliminates bottlenecks
- Enhanced workplace safety for employees
- Precision and accuracy that reduce waste and damage to materials, further lowering costs
- Advanced EOAT engineered to address unique operational requirements

VISION SYSTEMS AND TESTING

RYCHIGER



Vision inspection and verification

Our turnkey systems leverage advanced vision solutions for assembly verification, inspection, and quality control. Designed for optimal performance, our systems offer high-speed, reliability, and accuracy, ensuring consistent quality in every aspect of your production process.

Level of Automation

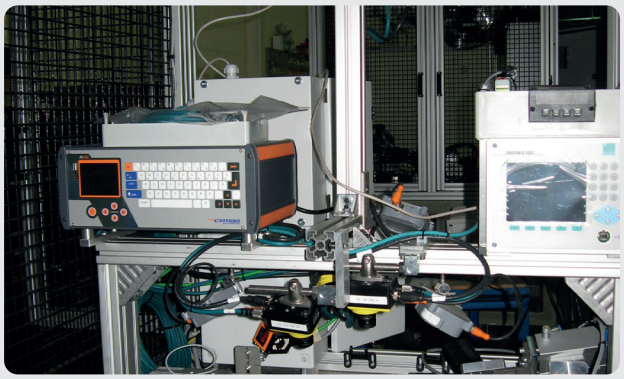
- Fully automated systems
- Semi-automated machinery
- Single or multi-robot cell
- In-line or standalone

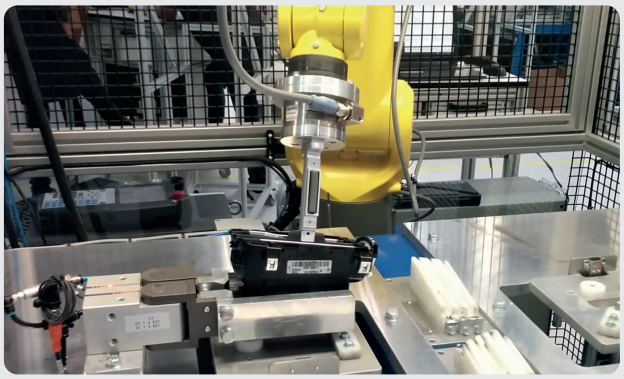
Our equipment provides

- Inspections for the presence, absence, and correct positioning of components
- Colour and completeness verification
- Defect detection
- 2D & 3D Laser scanning & inspection
- Improved inspection reliability and throughput with AI and advanced imaging
- Barcode reading and traceability

Partners: COGNEX KEYENCE OMRON

RYCHIGER





Test systems

Our systems are designed to ensure the highest quality and reliability of products in the manufacturing process. These systems provide comprehensive verification and calibration to confirm that each product meets the required specifications before reaching the market.

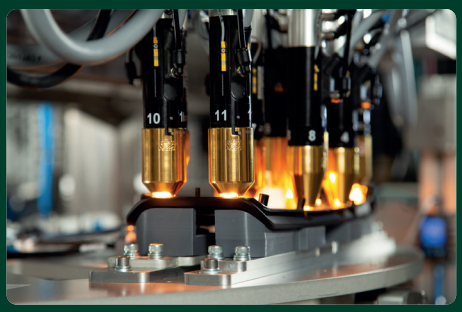
Level of automation

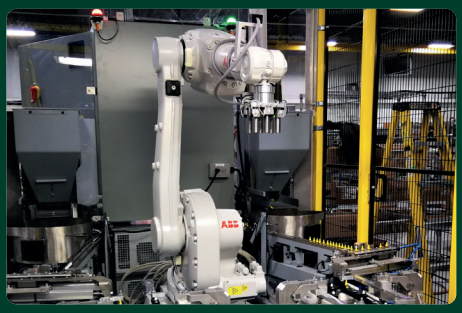
- Fully automated systems
- Semi-automated machinery
- Single or multi-robot cell
- In-line or standalone

Our equipment provides

- Comprehensive testing to assess electrical performance and safety standards
- Evaluates critical metrics under various operational conditions to ensure product reliability
- Thorough end-of-line or in-process verification, calibration, and assessment of overall functionality
- Accommodation of different product models and variations, allowing for quick changeovers between production runs
- Effort and travel testing

RYCHIGER





Rychiger Canada.
400 Steeprock Drive, Toronto
Ontario, Canada, M3J 2X1

Phone: 416-663-7071

Email: sales.auto@rychiger.com

rychiger.com/automotive