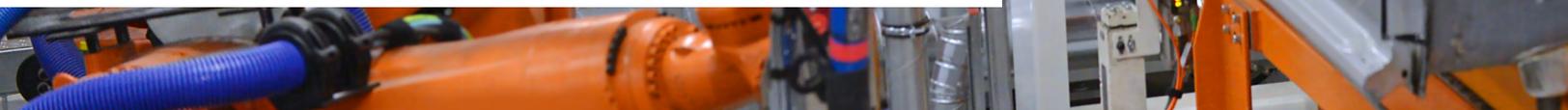


OVERVIEW

# Automotive

Eclipse Automation provides advanced automation solutions for automotive manufacturers who need speed, reliability, and consistent quality across every stage of vehicle and component production.

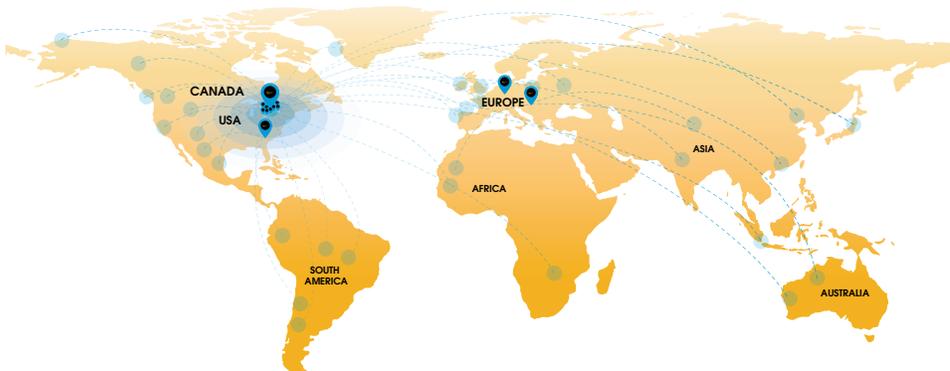


# Driving automotive manufacturing forward, faster

Eclipse Automation delivers advanced solutions that help automotive manufacturers improve efficiency, maintain consistent quality, and meet the demands of modern vehicle production. Our teams combine world-class engineering with deep manufacturing expertise to design automation that supports complex assemblies across internal combustion, hybrid, electric, and emerging mobility platforms.

We understand the demands of high-volume, safety-critical production environments and build systems that ensure repeatability and traceability at every step. Our technologies support rigorous quality expectations while strengthening throughput and performance across structural components, powertrain systems, battery assemblies, and interior modules. Integrated MES and ERP connectivity provides the real-time visibility needed to optimize operations and adapt quickly to changing market needs.

Eclipse brings decades of experience delivering end-to-end automation, with in-house capabilities spanning engineering, simulation, build, commissioning, and ongoing optimization. This approach allows us to oversee critical milestones and deliver reliable, future-ready solutions. Industry-leading automotive manufacturers rely on Eclipse to accelerate production while maintaining consistency and control.



**25**

YEARS OF EXPERTISE

**10+**

GLOBAL FACILITIES

**700+**

HIGHLY TRAINED EXPERTS

**1M+**

SQ. FT. OF PRODUCTION CAPACITY

**2001**

YEAR FOUNDED

At Eclipse Automation, we apply local knowledge while leveraging global expertise to solve any automation challenge.

## Automation capabilities for automotive manufacturing

Our solutions are tailored to the needs of each project, giving automotive manufacturers the efficiency, reliability, quality, and support needed to maximize long-term value across complex production environments.



### **Innovation, automation, and production lines**

We design and build tailored automation systems that strengthen throughput, reliability, and quality across automotive production lines. Our expertise spans material handling, controlled processing, conveyance, assembly automation, and end-to-end development of custom manufacturing solutions.



### **Manufacturing of specialized tools and equipment**

With in-house machining, fabrication, welding, and precision assembly, we manufacture high-quality components, tooling, and equipment that meet stringent automotive standards. Vertical integration and strong project-management systems ensure consistent performance from concept through build.



### **Optimization, consulting, and lifecycle support**

Our teams enhance automotive manufacturing through data collection, inspection, testing, and modernization services. Installation, integration, upgrades, and obsolescence management are supported by a strategic approach that strengthens long-term operational value across the entire facility lifecycle.

## Support across every phase of production

Eclipse Automation combines deep industry expertise with precision engineering to deliver successful projects across automotive and mobility applications. Our work spans the full automation lifecycle, ensuring systems are safe, repeatable, and optimized for efficiency across high-volume, safety-critical environments.

	<b>Advanced Engineering Services (AES)</b>	Our teams analyze workflows, simulate production processes, and define technical and regulatory requirements to establish a strong foundation for each project. We develop proof-of-principle solutions, write detailed specifications, plan strategically, and perform risk assessments while integrating lean manufacturing principles to improve efficiency, reliability, and scalability.
	<b>Automation</b>	Through engineering, design, build, commissioning, and testing, we deliver systems for assembly, material handling, inspection, and packaging. Each solution undergoes rigorous Factory and Site Acceptance Testing and is commissioned to integrate seamlessly with existing operations.
	<b>Post-automation</b>	Once systems are operational, we deliver training, support, and ongoing optimization. Our twenty-four-seven availability, spare-parts management, and lifecycle upgrades help maintain reliability, traceability, and scalability in fast-paced automotive environments.
	<b>Services</b>	We provide ramp support, spare-parts management, operator training (in person or virtual), OEE monitoring, audits, and predictive and preventative maintenance programs to help improve uptime and maintain consistent performance across production environments.
	<b>Upgrades and optimization</b>	We support modernization and upgrades through data collection, quality and inspection improvements, testing, and obsolescence management, extending the life and value of established automation systems.
	<b>Vertical integration</b>	By connecting automation with MES and ERP platforms and managing project execution and supply chains in-house, we provide full visibility across every stage of production. This integrated approach maximizes operational value and gives automotive manufacturers confidence throughout their automation journey.

## Our automotive expertise

Eclipse draws on deep, wide-ranging experience across the automotive sector. We support internal combustion, hybrid, electric, and emerging mobility platforms with automation solutions that strengthen throughput, repeatability, and quality. Speed to market, reliability, and consistent performance remain at the centre of every project we deliver.



**Internal combustion engine systems**

We develop automation for engines and powertrain components, including motor winding, fuel injectors, and fuel, water, and oil pump assemblies. Our systems also support line-side automation, precision sub-assembly, and high-accuracy process control.



**Electrification and battery systems**

Our expertise spans battery cell, module, and pack assembly, as well as supporting processes for hybrid and electric vehicle platforms. We design systems that maintain precision, traceability, and consistency across complex, safety-critical operations.



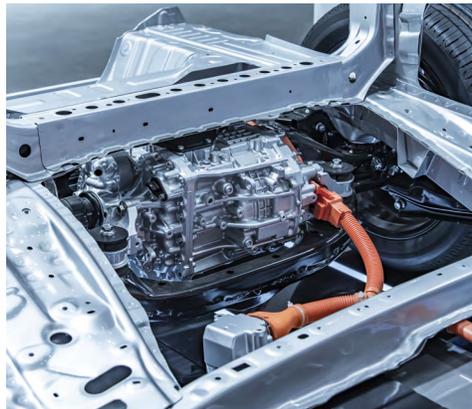
**Hydrogen fuel cells**

We deliver automation for fuel cell production, stacking, and MEA and PEM assembly. These solutions support emerging hydrogen platforms with repeatability and quality built into every stage.



**Interior systems**

We automate the production of seating systems, interior plastics, and mechanical assemblies such as door modules, console components, and steering mechanisms. Each system is built to support high-volume production with reliable fit, finish, and performance.



**Body and powertrain**

Our capabilities include welding, powertrain assembly, suspension systems, bumpers and lift gates, power mirrors, robotic glass installation, and wheel secure systems. These solutions strengthen consistency and reduce cycle time across critical vehicle assemblies.



**Electronic components**

We support automation for sensors, modules, and electronic subsystems essential to modern automotive platforms. Our solutions integrate testing, inspection, and traceability to maintain quality across high-throughput environments.

## Technology-enabled solutions

Our teams work with a wide range of technologies supported by decades of automation experience and a continuous improvement mindset.



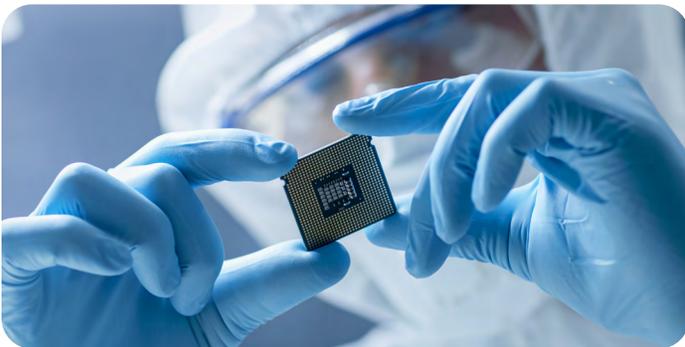
### Industry 4.0 and digital manufacturing

We support digital transformation initiatives through smart-factory integration, advanced robotics, data analytics, and connected automation platforms. These solutions create intelligent, interconnected environments that improve visibility and overall performance.



### Overall Equipment Effectiveness (OEE)

We help manufacturers maximize asset value by integrating data, analytics, and performance management into everyday operations. Our cross-industry expertise enables us to apply proven practices that connect the shop floor to enterprise systems and strengthen long-term performance.



### Technology selection and integration

Our teams draw on decades of automation experience and a continuous improvement mindset to help manufacturers select and apply the right technologies for each project. This approach supports reliable performance, long-term value, and scalable growth.

## Our commitment to quality and efficiency

Our team follows structured engineering practices and disciplined project methodologies to deliver consistent, high-quality results. As an ISO-certified organization, we apply industry standards and strict internal controls to ensure reliability, performance, and repeatability across every automotive automation program.

# The Eclipse Advantage

Founded in Cambridge in 2001, Eclipse Automation delivers manufacturing automation solutions for clients across the nuclear energy, life sciences, transportation, consumer, industrial, food & beverage, semiconductors, and aerospace & defense sectors.

Our cross-industry experience allows us to adapt proven technologies and best practices from one sector to another, enhancing precision, performance, and reliability for every customer.

With operations across Canada, the U.S., and Europe, we continue to grow our reach and capabilities to meet the evolving needs of all global manufacturers.

## Ready to build what's next?

Contact us today to see what's possible:  
[contact@eclipseautomation.com](mailto:contact@eclipseautomation.com)

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