



**COOPER STANDARD  
AUTOMOTIVE FLUID HANDLING**

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OUR INNOVATION. YOUR ADVANTAGE.

# CREATING SUSTAINABLE SOLUTIONS TOGETHER

## About Cooper Standard

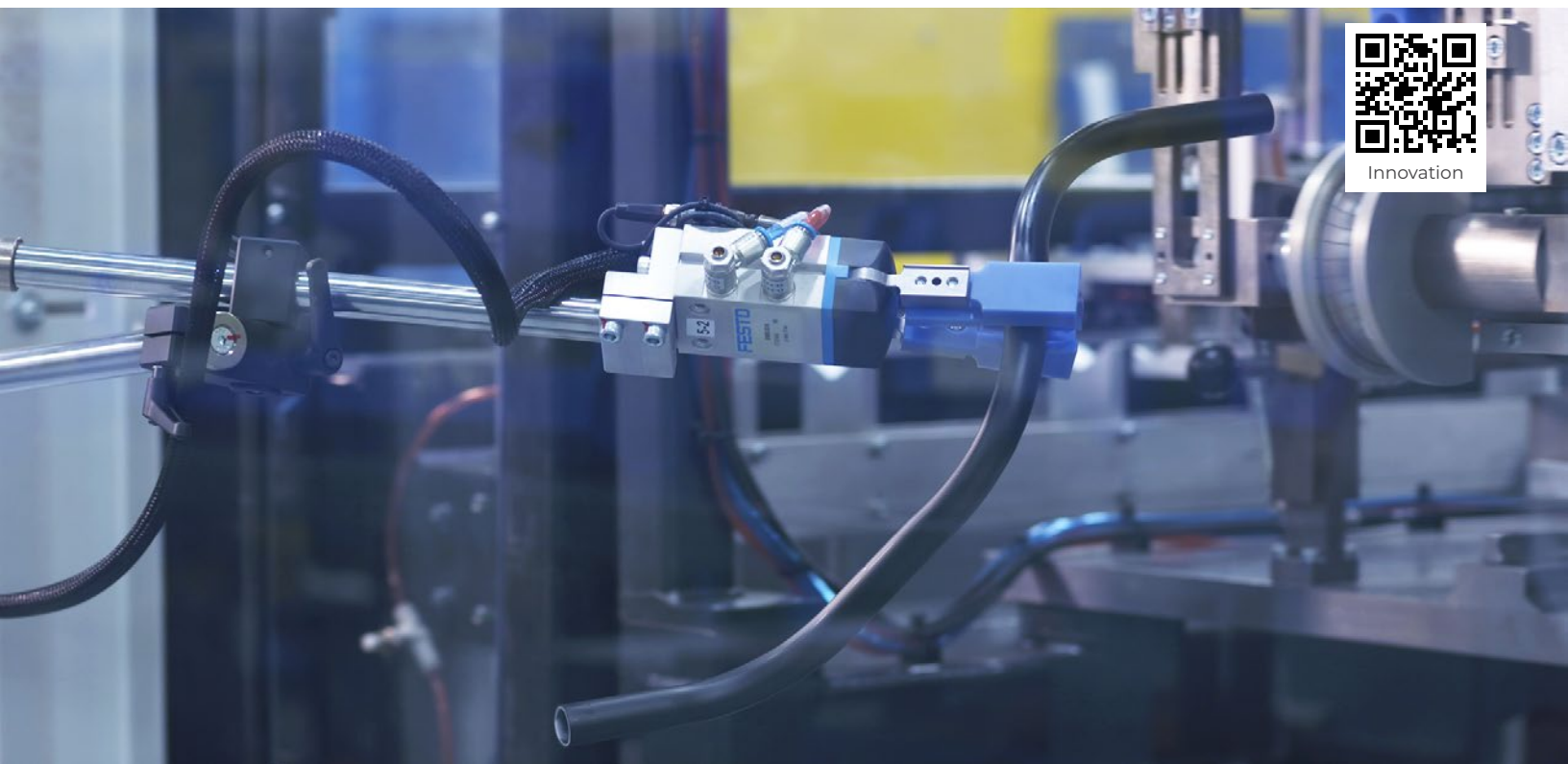
For more than 65 years, [Cooper Standard](#) has been a global leader in manufacturing, designing, and delivering world-class sealing and fluid handling systems across diverse markets. As a trusted supplier in the mobility industry, the Company is known for its award-winning, lightweight solutions that drive innovation and reliability. Every day, Cooper Standard lives its mission to: *Be the First Choice of the Stakeholders We Serve*. Cooper Standard is at the forefront of lightweight technologies, offering superior product performance that enhances vehicle efficiency. The Company's strength is built on advanced materials science, cutting-edge engineering, and world-class manufacturing, brought to life by the expertise, commitment, and collaboration of its people. With approximately 22,000 team members globally, we work together to turn knowledge into results and drive sustained success. When businesses choose Cooper Standard, they gain a reliable partner committed to delivering complete, customized full-system solutions tailored to their unique needs.

## Driving Sustainability to Commit for a Better Tomorrow

Our purpose statement, *Creating Sustainable Solutions Together*, reflects our commitment to making a positive impact and delivering added value to the industries and communities we serve. We strive to be responsible corporate citizens, supporting our people and the communities where we live and work. Our sustainability goals reinforce our dedication to strong environmental, social, and governance principles. By using eco-friendly

materials, reducing waste, and optimizing energy-efficient manufacturing processes, we create fluid handling solutions that extend product life. This approach conserves resources while supporting broader environmental objectives such as lowering carbon emissions and promoting a sustainable economy. As industries increasingly prioritize sustainability, adopting responsible fluid handling technologies is essential for meeting requirements and pushing towards a greener future.





# INNOVATION DRIVING THE FUTURE OF MOBILITY



Cooper Standard fosters a [culture of innovation](#) and manufacturing excellence that sets us apart from the competition. We consistently exceed customer expectations by leveraging expertise in advanced materials science, polymer processing, digital simulation, testing, and artificial intelligence.

With more than 65 years of design and manufacturing experience, our team delivers cutting-edge solutions to connect, convey, communicate, and control vehicle fluids. Through close collaboration with our customers, we provide advanced design and analytics to develop fluid handling components and optimize complete systems to help enhance efficiency and performance across every vehicle platform.

Through our Global i<sup>3</sup> Innovation Process, we empower employees to imagine, initiate, and innovate the next big breakthrough. We innovate where our customers are globally by listening deeply, adapting locally, and delivering solutions that resonate across cultures, markets, and experiences.

We also collaborate with customers, universities, and research institutions to create a streamlined innovation pipeline, pushing the boundaries of what's possible. At Cooper Standard, continuous improvement is part of our DNA. We strive every day to *Be the First Choice of the Stakeholders We Serve*, because because our culture of outstanding quality, innovation and execution isn't just what we do, it's who we are.

# INTEGRATION OF ADVANCED FLUID HANDLING SOLUTIONS

The mobility industry is shifting from internal combustion engines to hybrid and electrified vehicles. This shift is impacting not only the architecture of vehicles, but also the timelines associated with developing them. Our experts stay ahead of these trends by partnering with our customers to provide differentiating innovations that optimize fluid handling systems and enhance vehicle range while also helping reduce time to market.

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## Industry-Leading Portfolio

Our solutions are engineered to meet the evolving demands of modern vehicle architectures, from traditional fuel and vapor systems to next-generation hybrid and battery electric platforms. With a focus on performance, durability, and global compliance, our products combine innovative design with proven reliability - helping OEMs achieve seamless

integration, improved efficiency, and superior safety across every application. With SAE and VDA compliant designs, we provide global compatibility for seamless integration across markets. Our portfolio addresses diverse requirements across multiple mediums and end-form specifications, giving customers flexibility and choice.

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## Weight Reduction Using Lightweight Alternatives

To improve vehicle efficiency and performance, we are developing revolutionary thermoplastic solutions that offer significant mass reduction. These lightweight solutions are integral to improving sustainability of manufacturing by reducing waste, use of materials and emissions.

Lightweight products created with less materials and resources help lower our overall carbon footprint and those of our customers. Lighter products contribute to higher efficiency vehicles with extended range, while also supporting our Company's global sustainability objectives.

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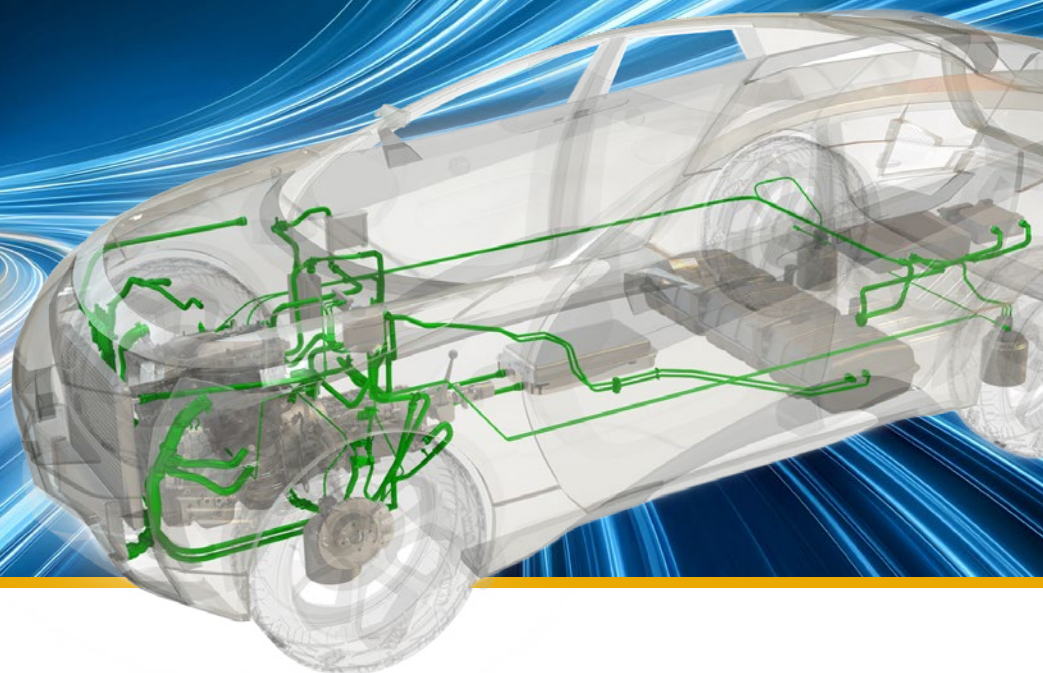
## Increasing Speed-to-Market

We recognize that speed matters. Our fluid handling solutions are designed to move from concept to production quickly, without compromising quality or performance. Our agile development process, global engineering expertise, and advanced manufacturing

capabilities ensure you get innovative, compliant solutions to market faster. By reducing lead times and streamlining integration, we help OEMs stay ahead of evolving vehicle architectures and electrification trends.



Fluid Handling



# FLUID HANDLING SYSTEM SOLUTIONS

## Fluid Transfer Systems

Our portfolio of [fluid transfer products](#) are engineered to meet the diverse requirements of glycol coolant, transmission fluid, oil, and air/vacuum systems. We support the full spectrum of powertrain and thermal management needs; including applications for internal combustion, hybrid, and battery electric vehicles. Next-generation solutions deliver breakthrough benefits such as significant weight reduction, abrasion resistance, superior corrosion protection, and improved efficiency.

## Fuel and Brake Delivery

Our [fuel and brake delivery systems](#) are designed to efficiently manage the transfer of critical fluids across a wide range of transportation, specialty, and industrial applications. By incorporating precision-molded plastic components, we enable more compact and efficient fuel and brake bundle assemblies. This approach also reduces installation labor through the use of integrated quick-connect and joint solutions, streamlining assembly while maintaining high performance and reliability.

# ADDING VALUE THROUGH STRATEGIC DESIGN, CAPABILITIES & TESTING

## Creation Process and Material Formulation

Our team of expert scientists continuously optimizes compounds to not only meet but exceed performance expectations. By blending diverse compound types, we engineer formulations that deliver superior durability, flexibility, and resistance,

outperforming current market capabilities. This relentless pursuit of excellence ensures our solutions are ready for the challenges of modern mobility and electrification.

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## Design From Concept to Reality

Before production begins, we collaborate closely with customers to shape concepts and define the aesthetics of each vehicle design. We leverage global CAE expertise, rapid prototyping, and state-of-the-art lab capabilities to validate design concepts and ensure they're production-ready; significantly shortening the development cycle.

Our advanced prototyping methods deliver real-time feedback for quick concept screening, followed by rigorous simulation and testing to optimize

every detail. This integrated approach drives speed, precision, and confidence from concept to launch. Through the integration of machine learning, FEA analysis, simulations, and predictive analytics, we also enhance engineering precision and often reduce, or even eliminate, the need for additional prototype manufacturing. This approach accelerates development and ensures designs meet the highest standards of performance.

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## Precision Through Design Validation

Cooper Standard performs advanced CAE analysis and simulations to ensure precision and reliability across every design. As the industry moves toward a digital future, traditional physical testing is being replaced by predictive design and validation methods. This approach identifies potential improvements before a physical product is ever created.

By leveraging proprietary digital tools, we can reduce development timelines to one-fourth of traditional requirements, dramatically accelerating time-to-market while maintaining uncompromised quality.

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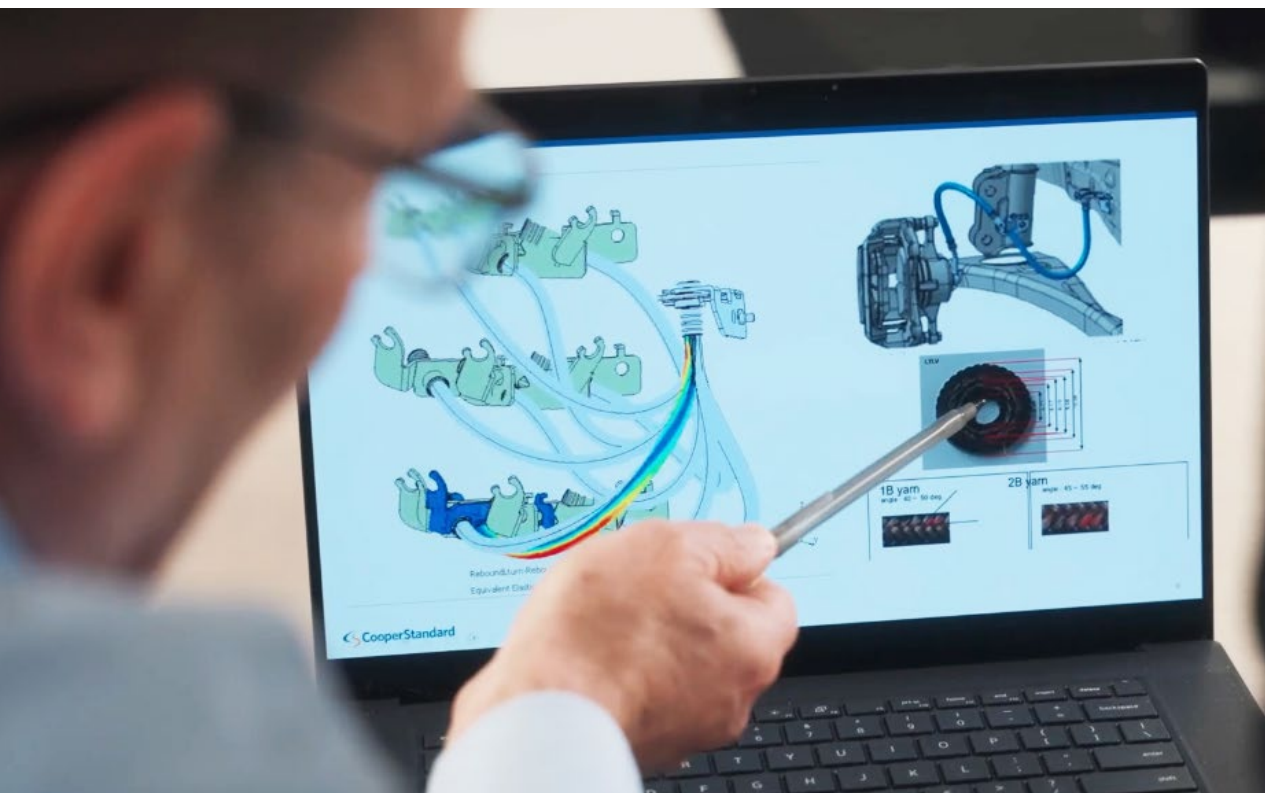
## Reliability Through Process Validation

During tooling and process development, we use advanced die flow and mold flow analysis to accurately predict material behavior before tools are produced. Global standardization of processes and critical equipment is prioritized by shop leaders, creating consistency across plants.

By producing high-quality tools in the first round, development timelines improve significantly. Every project undergoes an extensive gate review process to guarantee that product technology meets stringent standards and is fully ready for consumers.



Digital Tools



# STRATEGIC USE OF DIGITAL TOOLS AND ADVANCED ANALYTICS

Cooper Standard's development team harnesses advanced [digital tools and analytics](#) for CAE and virtual validation, ensuring every product meets precise customer requirements. Our global laboratories complement this process with comprehensive testing to guarantee integrity and compliance. While physical testing remains critical for safety-critical components, we are rapidly expanding digital technologies to replace traditional methods; cutting costs, accelerating development, and delivering faster speed-to-market.

## Design by Analysis

Design by analysis is a critical element of our development process, evolving from part-level evaluations to full-system simulations. These advanced tools have significantly shortened development cycles, enabling us to respond more quickly and effectively to customer needs while enhancing overall design quality. To support this approach, we have built custom libraries of material characterizations, drawings, and related data, empowering engineers and CAE specialists with standardized resources that reduce time spent on routine tasks and drive consistency across projects.

## Driving Efficiency Through Virtual Validation

By leveraging advanced digital tools, Cooper Standard can evaluate designs efficiently, eliminating the historical cost and time associated with physical testing. We have established a strong foundation of virtual analysis across many key product lines and continue to expand these capabilities to accelerate development and deliver optimized solutions faster.



Quick Connect



## BUILDING ON OUR LEGACY WITH NEXT-GEN SOLUTIONS

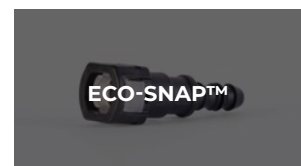
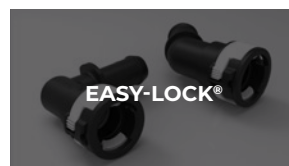
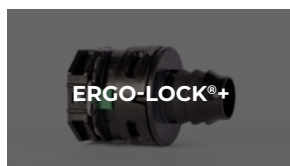
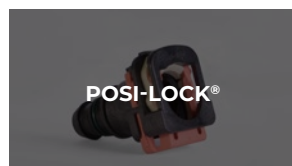
### A Diverse Connector Portfolio

With over 30 years of experience, Cooper Standard has been the trusted name in advanced [connector solutions](#) for fuel, vapor, and coolant systems. Our SAE and VDA-compliant designs deliver global compatibility and proven reliability, helping OEMs meet the toughest performance standards.

As the industry moves toward electrification, we're leading the way with innovative connectors engineered for modern vehicle architectures. From improved ergonomics to enhanced safety, our solutions are designed to make assembly easier and service faster.

Our solutions:

- Exceed performance specifications and preferences
- Are SAE and VDA-compliant for seamless integration worldwide
- Address customer specific requirements across multiple mediums and end-form specifications
- Offer low installation effort for improved ergonomics and connection assurance
- Allow for easy disassembly and reassembly during service events





PlastiCool®



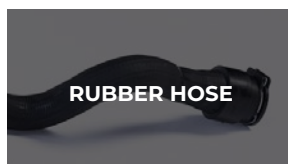
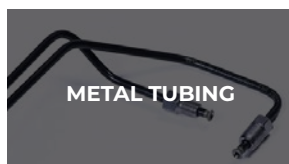
## EXPANDING OUR STRONG PRODUCT PORTFOLIO

### Wide Range of Tube and Hose Solutions for All Vehicle Architectures

With over 40 years of experience, Cooper Standard is a trusted leader in developing and producing advanced tube and hose solutions for the automotive industry and beyond. Our unmatched portfolio includes metal tubing for fuel and brake systems, durable rubber hoses for glycol, air and oil, and innovative [thermoplastic tubing](#) for fuel, vapor, air and glycol applications in battery electric vehicles. No matter the vehicle architecture, internal combustion (ICE), hybrid (HEV) or battery electric (BEV), Cooper Standard delivers robust, efficient solutions to keep fluids moving seamlessly.

We provide a wide range of benefits through solutions designed for versatility and performance:

- Solutions to meet all vehicle architecture needs (ICE/HEV/BEV)
- Optimized sizing and routings for maximum efficiency
- Robust designs built to withstand demanding applications and environments
- Seamlessly combine with Cooper Standard's connector portfolio for a complete, end-to-end solution





Fluid Sensing



eCoFlow™



## LEVERAGING EXPERTISE FOR INTEGRATED SOLUTIONS

As the availability of internal combustion engine heat declines and the demand for efficient battery thermal conditioning, heat utilization, and cabin comfort continues to grow, next-generation electrified vehicles will require advanced, highly efficient thermal management solutions.

### Communicate

The complex fluid architecture of electric vehicles is creating the need for increased integration to simplify systems and improve efficiencies.

Space requirements, complexity and cost can be reduced by integrating temperature [sensing](#) directly into existing connectors and engineered tubing and reducing the number of separable joints. These integrated temperature sensors monitor critical operating conditions to assure accurate control and system efficiency.

### Control

We envision a future where efficiency and vehicle range improvements are tied to integrated fluid control and management solutions. Fluid control manifolds and modules, containing electro-mechanical pumping and flow control components, are delivered in space-saving integrated assemblies. These devices are marketed under our [eCoFlow™](#) fluid control technology portfolio, providing optimized fluid flow and control within vehicle thermal management systems.

# WORLD-CLASS OPERATIONS YOU CAN TRUST

## Prioritizing *Safety First* Always

We are committed to ensuring both safe production and safe products. As a global manufacturing leader, our core strength lies in delivering innovative solutions with the highest standards of safety and efficiency for customers worldwide. Our goal is **zero Incidents**, and many of our facilities consistently achieve this milestone on a regular basis demonstrating our unwavering dedication to workplace safety and operational excellence.

## Solving Challenges With Advanced Engineering

We are committed to addressing customer challenges and meeting functional requirements with precision. Our engineers stay ahead of emerging technology trends to deliver cutting-edge solutions, with a strong focus on advanced analytics. We remain focused on building towards the future of electrification all while further enhancing our engineering processes to become faster and more efficient with higher accuracy.

## World-class Quality in All We Do

Across our organization, we regularly evaluate key global KPIs to ensure we consistently deliver products and services that meet and exceed customer expectations. We strictly adhere to internationally recognized regulations and standards, including: APQP, FMEA, PPAP, ISO 9001 with Design, ISO 14001, ISO 9100, ISO 50001, and IATF 16949 (ISO and IATF certifications vary by location).

## Manufacturing Excellence Without Compromise

Cooper Standard delivers world-class products and services by leveraging standardized processes across our global operations. Through optimized digital tools and process automation, we ensure consistent application of best practices while adapting systems to meet specific project requirements. Each year, numerous facilities earn recognition as Diamond Plants, our internal recognition for sites that meet or exceed Cooper Standard's global manufacturing standards.

## **GET STARTED *TODAY***

We are committed to delivering high-quality solutions while shaping the future of mobility. We partner with customers to take projects to the next level, combining expertise, technology, and collaboration. Scan the QR code to learn more about how we can work together.



Scan to  
learn more

**Global Headquarters**  
40300 Traditions Drive  
Northville, MI 48168



[cooperstandard.com](https://www.cooperstandard.com)