



**COOPER STANDARD  
INDUSTRIAL & SPECIALTY GROUP**

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OUR INNOVATION. YOUR ADVANTAGE.

# GLOBAL PARTNER, DEDICATED SERVICE

## *Cooper Standard Industrial and Specialty*

The Industrial and Specialty Group (ISG) is a dedicated business unit that applies Cooper Standard's core competencies, materials science and new technologies to diverse global markets.

Our commitment to bring value to the many industries we serve produces groundbreaking advancements that enhance product design, performance and value.

Our products include:

- Sealing Systems
- Fluid Transfer Systems
- Fuel & Brake Delivery Products

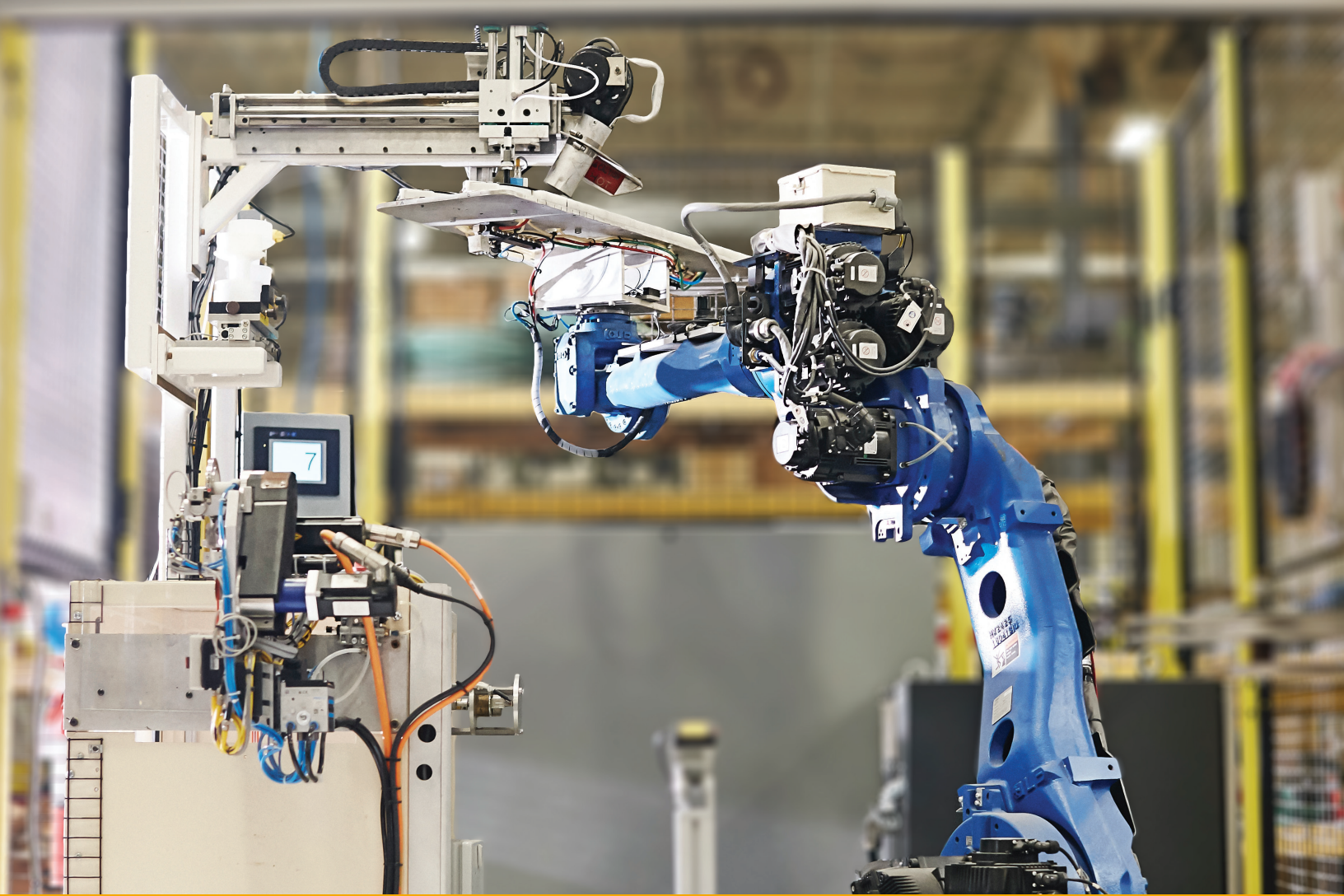
[www.cooperstandard-isg.com](http://www.cooperstandard-isg.com)

## *About Cooper Standard*

Cooper Standard innovates new materials and components that add value to our customers' products. Our core offerings include sealing, fuel and brake delivery and fluid transfer systems with applications in many diverse transportation and industrial markets.

Cooper Standard's more than 30,000 employees in 21 countries are committed to providing our customers with high quality products, and continuously improving our business and surrounding communities.

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



## LEVERAGING INNOVATION

As part of Cooper Standard, the Industrial and Specialty Group has extensive resources to support customers in a variety of industries.

Driven by a commitment to materials science and innovation, our market-focused approach brings new value to our customers. This philosophy has led to the development of revolutionary solutions such as our

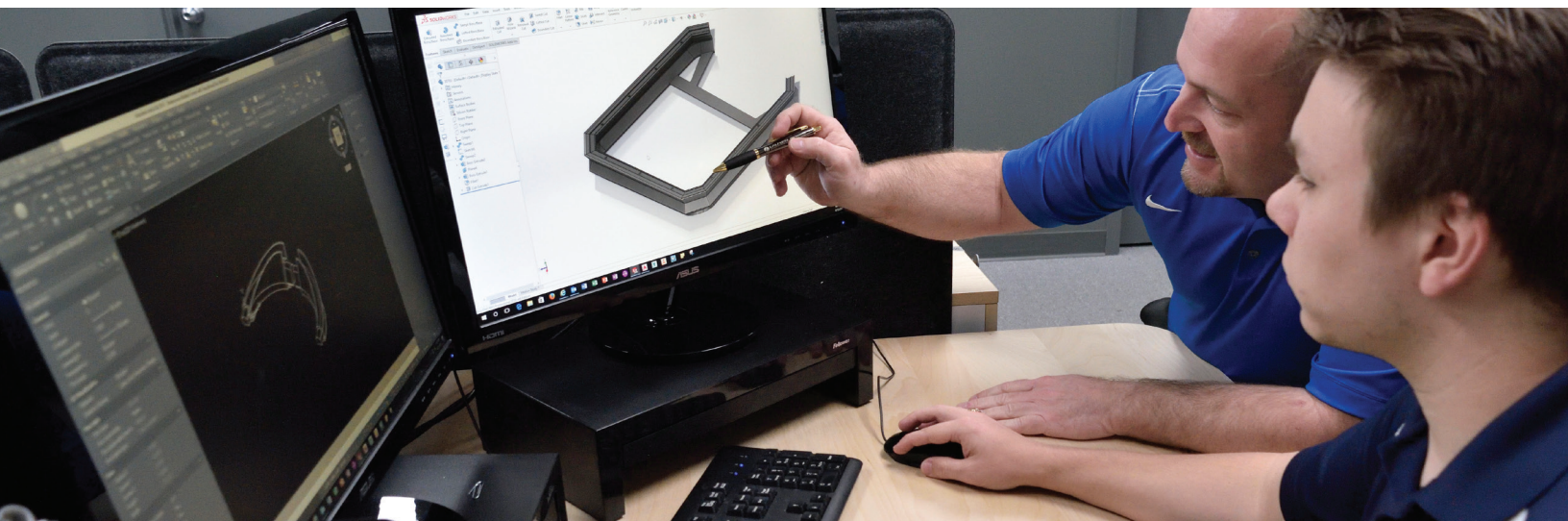
Fortrex™ material platform, ArmorHose™ technology and MagAlloy™ metal coating.

Backed by global design, engineering and manufacturing resources, our broad product expertise and capabilities enable us to solve challenges for top companies throughout the world.



Learn more about how we leverage innovation at [www.cooperstandard.com/solutions/open-innovation](http://www.cooperstandard.com/solutions/open-innovation)





## VERSATILE SOLUTIONS

With decades of experience, Cooper Standard ISG provides customers with custom engineered and catalog solutions. We supply a wide range of industries with extruded and molded sealing products to connectors, hoses and assemblies for fluid transfer and fuel and brake delivery systems.

We are a sophisticated supply partner for leading manufacturers, engineers and builders in industries around the globe, including:



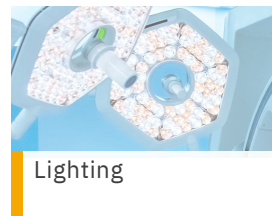
Window & Door



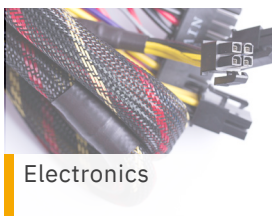
Appliance



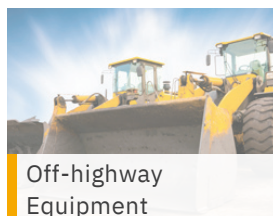
HVAC



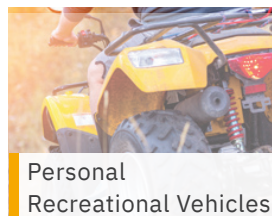
Lighting



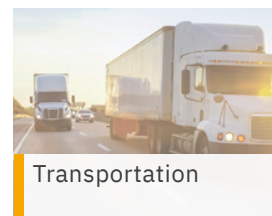
Electronics



Off-highway  
Equipment



Personal  
Recreational Vehicles



Transportation

# COLLABORATE. INNOVATE. ACCELERATE.

## *Committed to Innovation*

We pursue innovation in every aspect of our business. This mindset guides how we meet current and future customer needs.

Our dedicated teams work with you to solve your unique application challenges and provide the tools you need to outperform expectations.

We tap into Cooper Standard's extensive resource network to provide you with flexible, customized solutions.

A Global Technology Center accelerates materials science breakthroughs with advanced testing and analytical capabilities.

Our i<sup>3</sup> Innovation Process invites our employees to imagine, initiate and innovate in order to create new solutions. The i<sup>3</sup> Process efficiently gathers ideas, validates concepts and stimulates innovation so we can continually bring new value to the marketplace.

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## *Advanced Polymer Design*

As part of Cooper Standard, the Industrial and Specialty Group can provide advanced materials science and expertise that adds value for our customers.

We design thermoset and thermoplastic materials for your end-use conditions, selecting the right material based on the requirements for performance, compatibility, cost, installation and aesthetics specific to your application.

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## *Superior Metal Solutions*

Cooper Standard ISG leverages investments in materials science to provide state-of-the-art fluid transfer system solutions. Our steel tubing capabilities range from stainless steel to aluminum to low carbon steel, as well as tube coatings that

include E-zinc and our innovative MagAlloy™ coating. We can add an extruded polyamide top coat to these products for exceptional abrasion and corrosion resistance. Our steel tubing products can be used for any fuel, brake or powertrain application.

# SUPERIOR PRODUCTS

## *Engineered Solutions*

Cooper Standard ISG's engineers are dedicated to serving customers' industry-specific needs. Our engineered solutions include custom extrusions, molded components, fluid transfer systems and fuel and brake delivery systems.

When manufacturing custom engineered components, we start with an end-use assessment of your application and then design solutions based on your unique project requirements.

From selecting the right material to improving the part installation process, we can provide innovative ideas whether you're redesigning an existing part or starting from scratch.

Our engineering capabilities include:

- Part Design & Optimization
- 2D & 3D Finite Element Analysis (F.E.A.)
- 3D Modeling
- Tool Design - EDM and CNC Machining
- Equipment Development
- Prototyping

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## *Catalog Parts*

Cooper Standard's online parts catalog features high-quality standard products for sealing, trimming, attaching, abatement, protection, restoration, organizing, glazing, framing and replacement applications.

Our technical and customer support teams work with you to find a product that best fits your specified needs or develop a custom product to meet your application requirements.

We continuously add products to our online catalog. Our catalog parts include:

- Connectors
- Seals
- Clips

Browse our online parts catalog:





# SEALING MATERIALS

*Thermoset and thermoplastic materials for seals and gaskets.*

For sealing solutions, Cooper Standard ISG can provide many different thermoset and thermoplastic materials, help develop custom formulations and offer advanced materials including our Fortrex™ material platform.

## *Sealing Material Capabilities*

### *Thermoset*

#### *Sponge & Dense*

- EPDM
- Fluoroelastomer
- Fluorosilicone
- Neoprene
- Nitrile
- Polyisoprene
- Polyurethane
- SBR
- Silicone

### *Thermoplastics*

#### *Rigid & Flexible*

- ABS, ASA, HIPS
- EPP/EPE, HDPE, LDPE, PP
- FPVC, RPVC
- Melt Processable Rubber
- Polycarbonate
- Nylon
- TPO, TPU, TPV

### *Fortrex™ Material Platform*

#### *Lightweight Elastomer*

- Dense
- Micro-Dense
- FTX (Corner Molding)





## SEALING SYSTEMS

*Custom and standard seals for a variety of static and dynamic applications.*

From improving installation to optimizing part performance, we offer a wide variety of integrated capabilities and technologies to enhance sealing products.

### ***Extrusion Capabilities***

- Multiple Carrier Options (Steel, Stainless, Aluminum)
- Surface Finishing (Flocking, Performance Coatings)
- Anti-stretch Cord
- Color Matching
- Custom Printing
- Die-cutting, Cut to Length
- Drilling, Punching, Notching, Stamping
- Multiple-durometer (up to Four Durometers)
- Lamination (Continuous & Discontinuous)
- Packaging
- Splicing, Welding, Molded Corners (O-ring, Frame)
- Tex-A-Fib

### ***Molding Capabilities***

- Large to Intricate Parts
- Rubber to Metal Bonding & Fabrication
- Vibration Dampening
- Molded-end Details

















## FLUID TRANSFER SYSTEMS

*Hoses, assemblies and quick connects for fluid transfer systems.*

Our fluid transfer systems control, sense and deliver fluids and vapors for optimal powertrain, transmission and HVAC operations. We offer electric and hybrid-specific components and assemblies, as

well as innovative products and coatings that can help reduce cost and improve weight reduction and abrasion performance in fluid transfer applications.

### Product Portfolio \*Diesel Particulate Filter (DPF) & Selective Catalyst Reduction (SCR) Emission Lines

 Heater & Coolant Hoses & Tubes	 Degas Tanks	 Transmission Oil Cooling Hoses	 *DPF and SCR Emission Lines	 Quick Connects	 Charge Air Cooler Hoses
 Oil Pick Up Tubes	 Battery Coolant Lines	 AC Lines	 Trans Fill Tubes	 Oil Indicator	 Turbo Coolant / Lube Feed



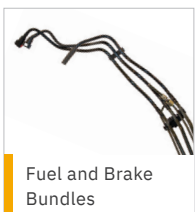
## FUEL & BRAKE DELIVERY SYSTEMS

*Lines and bundles, brake hose, fuel rails and quick connects for fuel and brake assemblies.*

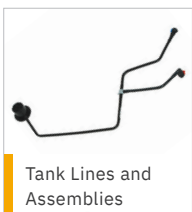
Cooper Standard ISG's fuel and brake delivery systems efficiently support the transfer of critical fluids in various types of vehicles. Our products improve installation, durability, permeation and performance, and our ability to provide multi-layered plastic tubing, quick connectors and steel tubing

allow us to configure a full systems solution for any fluid handling requirement. Our best-in-class technology and products allows us to provide a competitive advantage for our customers and their unique requirements.

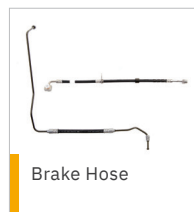
### Product Portfolio



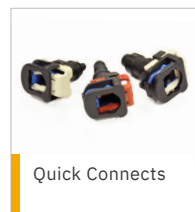
Fuel and Brake  
Bundles



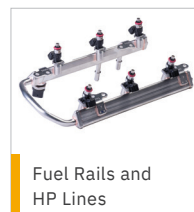
Tank Lines and  
Assemblies



Brake Hose



Quick Connects



Fuel Rails and  
HP Lines



Multi-layer Tubing

# WORLD-CLASS OPERATIONS

## ***Setting the Standard for Quality***

Cooper Standard ISG strives for world-class quality in all we do.

Our global quality team shares best practices and lessons learned, developing global KPIs to ensure we deliver quality products and services that consistently meet your specifications.

## ***Manufacturing Excellence***

As a global manufacturing company, our ability to produce innovative products in a safe and highly efficient manner is key to serving our customers.

We strive to standardize our processes, develop global best practices and continually improve our manufacturing performance.

## ***Leveraging Global Best Practices***

We use standardized global practices known as the Cooper Standard Operating System to ensure safety, quality, reliability and sustained excellence in every area of the business.

These documented global procedures, standards and best practices guide our manufacturing and allied functions, such as safety and quality, across the organization.

## ***Focused on Continuous Improvement***

From internal education programs to reducing our impact on the environment, we continuously improve our manufacturing processes and training initiatives at all levels of the business.

Standardized operator and plant manager training provide our operators and manufacturing leaders with essential skills to deliver quality excellence.

Initiatives such as our Diamond Plant Award and Kaizen of the Year Award recognize operational excellence and continuous improvement efforts at the plant level, promoting ongoing improvements across manufacturing operations.

## ***Get Started***

Our dedicated ISG team provides technical, material and product expertise, as well as extensive market and material knowledge to develop customized, high-performing solutions.

We work with you to help take your project to the next level, reviewing your industry's specific needs and the end-use conditions of your application.

Call us today to get started on your next project.

Contact us!



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