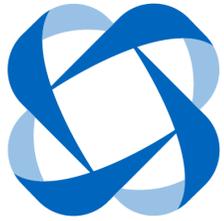


**Better Science. Better Service. Better Solutions.**



**CDI ENERGY PRODUCTS®**

*A Michelin Group Company*

# High-Performance Polymer Products



**Oil & Gas, LNG, Fluid Handling, Aerospace, Medical, Power Generation,  
Refining & Petrochemical, Industrial Processing and Beyond**

| [www.CDIProducts.com](http://www.CDIProducts.com) |



## OUR FOCUS

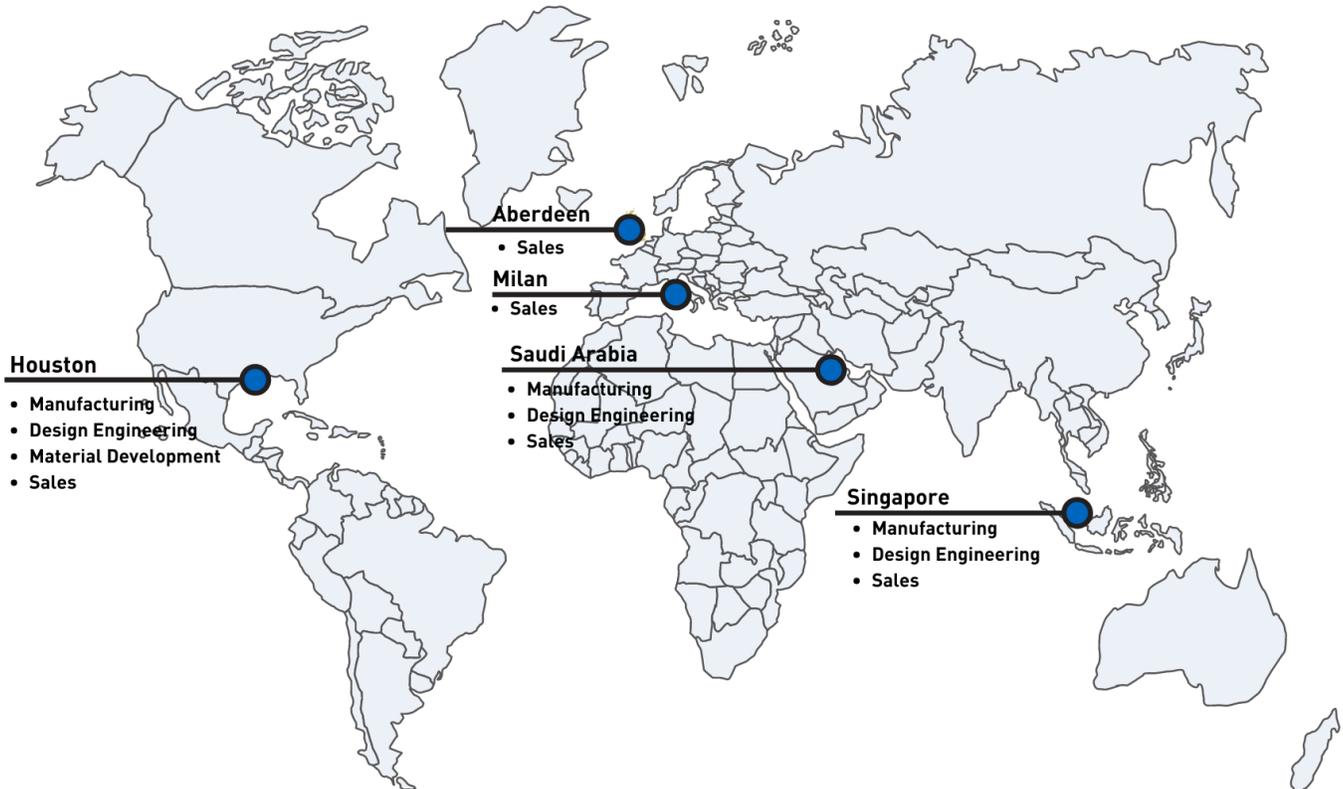
With over 40 years of experience, CDI is an industry leader in the design, manufacturing, and processing of high-quality, high-performance seals and components. We are vertically integrated and highly experienced in a broad scope of advanced polymer materials and blends. With strategic locations around the globe, we provide critical solutions, on time and to your specification, with quality you can trust.

# 750 30 1

**CUSTOM-MADE  
MATERIALS**

**MANUFACTURING  
PROCESSES**

**GLOBAL  
COMPANY**



# VISION STATEMENT

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To Be A Global Leader in High Performance Polymer Products to the Energy Industry and Beyond.

# INDUSTRIES

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We provide critical components, material development, and engineered applications for markets across the energy sector and beyond:

- Oil & Gas
- Cryogenics and Liquid Natural Gas
- Wind & Renewable Energy
- Water Management
- Fluid Handling & Transfer
- Automotive
- Aerospace and Defense
- Medical and Biological
- Refining & Petrochemical
- Industrial Processing
- Power Generation
- Semiconductor

# PARENT COMPANY

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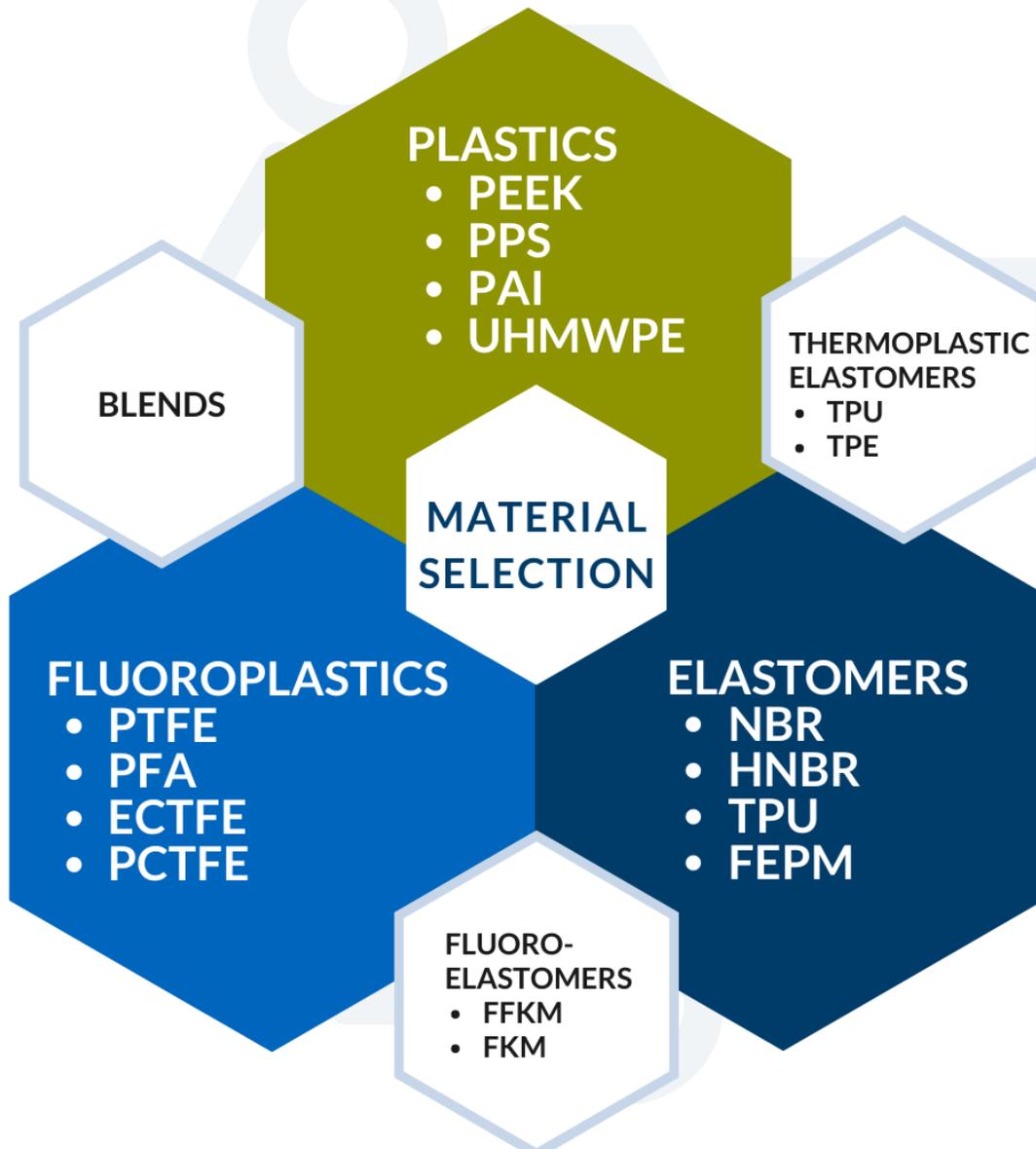
CDI Energy Products is proud to be a Michelin Group Company, part of Michelin's High Tech Materials Division.





## TECHNOLOGICALLY ADVANCED MATERIALS

Strategic investment in material development ensures implementation of the latest achievements and technical progress in material science. We are highly experienced in a broad scope of advanced materials – from plastics to elastomers to advanced fluoropolymers and thermoplastics. In high-performance composite components, our expertise ensures reliable bonding and performance.



**EXCEPTIONAL CHALLENGES REQUIRE CUSTOM FORMULATED MATERIALS.**



Prototyping to  
Production Expertise



Unparalleled  
Manufacturing  
Capabilities



Material Development  
Expertise



Application Engineering  
Support



Global Customer  
Service & Support



Shared Technologies &  
Aligned Strategies

## FULLY-INTEGRATED SERVICES

CDI offers fully integrated manufacturing services which utilize our capabilities across our multiple manufacturing facilities, our international sales hubs, and our global supply chain.

- Molding
- Machining
- Robotics
- Design
- Grinding
- Kitting
- Testing
- 3D Printing
- Engineering
- Fabrication
- Compound Development
- Prototyping
- Large Diameter (Up to 110")





## OIL AND GAS

Our technological advancements enable operators and service providers to access remote reservoirs and explore complex well architecture. Our components must be capable of withstanding challenges of scale and complexity.



- Elastomers, Thermoplastics, PTFE, Composites
- High Pressure Pump Packing, Downhole Tool Seal Stacks, BOP & Bonded Seals, Valve Stem & Seats, Liner Hanger Seals, A6R Downhole Pump Seals, OptiSeal® Sets, Piston & Rider Rings, Packing & Oil Wiper Rings, Compressor Valve Components, Fibrex® bearings, and more.



## LNG/CRYOGENICS

LNG is super cooled to -260° Fahrenheit (-162° Celsius) which enables transportation of large amounts of gas easier and more economically. Our components must be able to withstand these extreme temperatures.



- Elastomers, PTFE, PTFE Blends, PEEK, UHMW-PE
- Valve Stem Seals, Valve Seats, Compressor Sealing Components, OptiSeals® and more.



## WIND & RENEWABLE ENERGY

Large turbines generate clean power across the world. Expansive land and offshore wind farms provide a clean and reliable source of power globally. Quality components keep the turbines active and reliable, providing critical energy.



- Elastomers, Thermoplastics, Filled PTFE, UHMW-PE
- Primary Turbine Shaft Seals, Pitch Bearing Seals, Yaw Bearing Seals, Custom Springs, and more.

## WATER MANAGEMENT

The world relies on water for life - from clean drinking water resources, to water waste, to hydroelectric power. CDI designs products for water filtration, reverse osmosis, water transportation and more.

- Thermoplastics, PTFE, Elastomers, UHMW-PE, PFA
- Valve Stem Seals, Pump Seals, Plastic Housings, Fibrex® bearings, and more.



## FLUID HANDLING & TRANSFER

When moving fluids and gases through a process, it is critical to mitigate leakage. Environmental, economic and safety concerns demand superior sealing solutions. Quality cannot be compromised with so much at stake.

- Elastomers, Thermoplastics, PTFE, Composites
- dures® pump wear components, Valve Stem Seals, Fugitive Emissions Seal Sets, OptiSeal® Sets, Pump Seals, Fibrex® bearings, and more.



## AUTOMOTIVE

Engineered elastomers and thermoplastics are critical for engine performance. Our Permeon technology allows the exact amount of oxygen required for ultimate engine performance. We also provide parts for paint spray systems.

- Permeon Breathable PTFE
- Oxygen Sensor Grommets and more.





## AEROSPACE & DEFENSE

Commercial and military aircraft rely on hydraulics and fluid transfer to ensure safe operation. Our innovative seals are used in braking systems as well as other system critical areas of the aircraft, where failure is not an option.

- Thermoplastics, PEEK, PPS, PTFE
- Optiseals®, Packing Sets, and more.



## MEDICAL & BIOMEDICAL

Oxygen concentrators maintain and save lives across the globe. Our engineered PTFE-based materials are used in the compressors required for these devices. Lower coefficient of friction results in longer life and peace of mind.

- Thermoplastics, PTFE
- Packing sets, Piston Cups, and more.



## REFINING & PETROCHEMICAL

Refineries and petrochemical facilities across the globe process hazardous chemicals into consumer products from gasoline to cosmetics. Any type of sealing device needs handle the critical demands of such essential equipment.

- Elastomers, Thermoplastics, PTFE, Composites
- dures® pump wear components, Valve Stem Seals, Fugitive Emissions Seal Sets, OptiSeal® Sets, Piston & Rider Rings, Packing & Oil Wiper Rings, Compressor Valve Components, Fibrex® bearings, and more.



## INDUSTRIAL PROCESSING

Industrial processing involves equipment including pumps, valves, compressors and turbines used to process a wide range of products. Under strenuous production requirements, strong sealing components are vital.

- Elastomers, Thermoplastics, PTFE, Composites
- Shaft Seals, Compressor Sealing Components, Custom Molded Products, and more.



## POWER GENERATION

The world relies heavily on traditional power generation sources including coal, natural gas and nuclear. Our solutions maximize the efficiency of these facilities as the need for more power continues to grow worldwide.

- Elastomers, Thermoplastics, Composites
- dures® pump wear components, Valve Stem Seals, Pump Seals, and more.



## SEMICONDUCTOR

Harsh chemicals and ultra-pure processes are required to manufacture semiconductors utilized in industries across the world. CDI partners with OEMs to provide materials and designs ensure safety and quality.

- PEEK, PFA, FFKM
- Wafer Seals, Pump Components, Valve Components, Water Filtration Components, Wafer seals, and more.



# 5

## COMPANY COMMITMENTS

Despite our cutting edge materials and vertically integrated manufacturing capabilities, it is our employees that really make the greatest impact on our business. CDI is fortunate to have the best and the brightest on our team, leading new initiatives, and helping us meet and exceed our customers' expectations.

Our 5 Company Commitments were developed with our employees in mind. These commitments reinforce our dedication to their development and success. Through education, cross-training, and engagement, we foster an environment of collaboration and teamwork. We are dedicated to maintaining a safe and caring culture, to growth, to keeping our promises, to improvement, and to supporting our customers' success.

A SAFE & CARING CULTURE

EMPOWERING & DEVELOPING PEOPLE

KEEPING PROMISES

ALWAYS LEARNING & IMPROVING

CUSTOMER SUCCESS

The logo for IMPACTS features a stylized lowercase 'i' with a blue and white graphic of a person or a signal tower to its left. The word 'IMPACTS' is written in a bold, black, sans-serif font.

## CONTINUOUS IMPROVEMENT

iMPACTS is CDI's company wide continuous improvement program focused on employee-generated recommendations to improve safety, quality and customer satisfaction. The program empowers employees to share feedback and suggestions in their work zones, within our product lines, across the manufacturing facility, and in day-to-day operations.

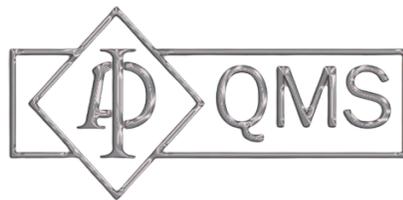
We value the wealth of knowledge and experience our team brings. Some of our greatest efficiency initiatives and new products ideas started on the shop floor. Our people really make the difference.



**2+ MILLION MAN HOURS WITHOUT LOST TIME INJURY**

**LIVE SAFETY & MAKE AN IMPACT EVERY DAY**

We are committed to empowering safe practices and continuous improvement across our global footprint. With a focus on environmental sustainability, cultural sensitivity, and personal accountability, we recognize our team for their efforts to support and protect the members of the CDI family.



**INHERENTLY SUSTAINABLE**

Sustainability and environmental responsibility is ingrained in every function of our business. Our products are designed to safeguard the environment and keep hazards at bay. In our facilities, we strive to be 100% recyclable or reusable. In the past few years, we have reduced our facility emissions by 7.22 tons.





**CDI ENERGY  
PRODUCTS®**  
A Michelin Group Company

CDI is proud to partner with some of the best companies across our market segments.

Whether we are working with Fortune 500 businesses or privately owned OEMs, our level of dedication and service remains the same.

## WHAT OUR CUSTOMERS SAY

*"CDI is extremely helpful on recent R&D seal development, and price and delivery times are above expectation for R&D, better than competitors. For R&D, short delivery times for low quantities are a big challenge to enable projects to keep on track and CDI has been a key factor on meeting our goals."*

Standing by to help with the most critical demands in your most difficult environments. Contact us today to learn how we can work together.

**United States Manufacturing:**  
8103 Rankin Road, Humble, Texas 77396  
Phone: +1 281.446.6662

**Asia-Pacific Manufacturing:**  
10 Tuas South Street 5, Singapore, 637792  
Phone: +65 6861.6811

For Inquiries: [CDI-Global.Sales@CDIproducts.com](mailto:CDI-Global.Sales@CDIproducts.com)