



# Parker Hannifin Electric Vehicle Solutions

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Moving the EV Industry Onward



# Parker at a Glance



3,000+  
Product lines



\$15 Billion+  
In global revenue



450,000+  
Customers worldwide



56,000+  
Team members worldwide



We are a global business with a local focus.



# EV Onward™

EV **ONWARD**™

Parker's portfolio of EV solutions that pairs engineering expertise and trusted products to solve complex challenges in thermal management, light-weighting, fast-charging, reliability and safety.



BROAD PORTFOLIO OF  
ELECTRIFICATION SOLUTIONS



MULTIPLE SOLUTIONS,  
ONE TEAM



SUPPORT  
WHEN & WHERE YOU NEED  
IT



GLOBAL  
MANUFACTURING  
AND R&D



MOVING AT THE SPEED  
OF OUR CUSTOMERS

# EV Applications



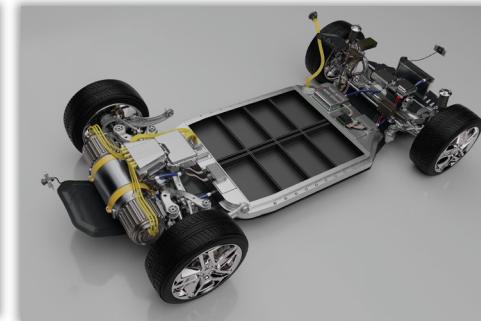
Charging Infrastructure



Vehicle Body



Battery Pack



Power Train



Monitoring Systems

Our highly engineered, innovative solutions enable a broad range of electric vehicle applications to meet the needs of the EV era.



# Sealing and Venting Solutions

## KEY PRODUCTS

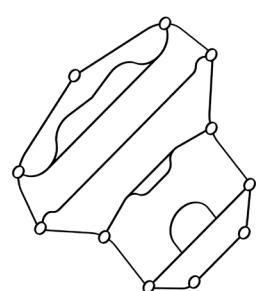
### O-Rings



Static seals for sealing battery systems, cooling systems, e-axle systems, etc.

Large material range available. Easy installation.

### Press-in-Place Seals



Diamond, hexapod, keyhole and jigsaw seals for sealing of housings.

Error-proof assembly. Easy installation. Great for environmental sealing

### Edge Bonded Integral Seals



Structural stability, easy installation, highly customizable for automated assembly

Transfer Molded

### ClipHvent



Provides overpressure relief and prevents external fluid from entering the housing.

Increased safety. Easy press-in installation into a bore.

# Shielding Solutions

## KEY PRODUCTS

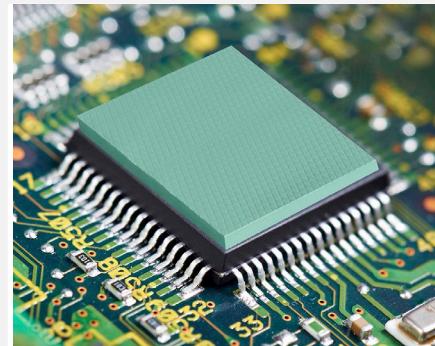
### EMI Shielding & Grounding



Superior conductivity and shielding performance

Increased reliability, design flexibility, and tested to a variety of industry standards for long-term performance

### Thermal Interface Materials



Fully cured dispensable materials and low compression force thermal gap pads for effective thermal energy transfer

High bulk thermal conductivity and low thermal independence for fragile components

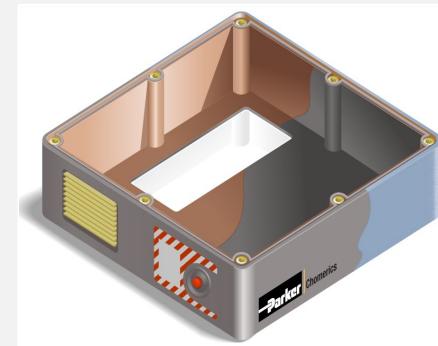
### Conductive Plastics



Electrically conductive thermoplastics for custom injection molded EMI shielding enclosures and metal-to-plastic conversions

Enhances mechanical strength and ensures even conductivity across finished part

### Integrated Assemblies



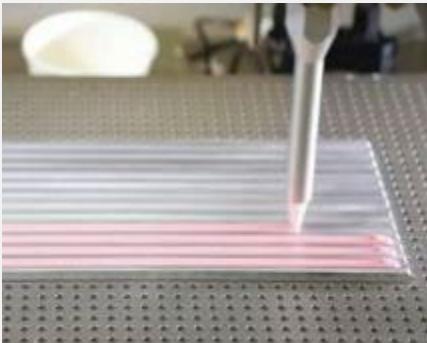
Integration and assembly of thermal materials, optical solutions, gasketing and secondary features

Aids in fast design cycles and fast-to-market product development

# Safety Solutions

## KEY PRODUCTS

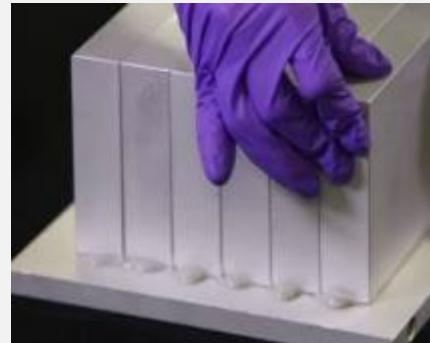
### Gap Fillers



Liquid-dispensed stays in place,  
cures in place

High-speed dispense, plus high  
performance  
thermal conductivity

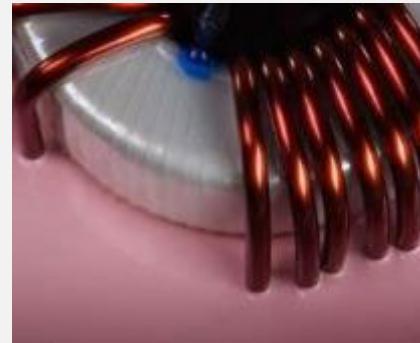
### Adhesives



Liquid-dispensed, stays in place,  
cures in place

High speed dispense, high thermal  
conductivity, adds structural  
adhesion functionality

### Potting & Encapsulants



Liquid-dispensed, readily flows into  
all areas, cures in place

Easily dispensed, encapsulates all  
surfaces, high thermal conductivity,  
protects sensitive electronics

### Coatings



Spray applied, cures on the surface

Easily applied, coats metallic  
surfaces, provides **excellent high  
voltage insulation**, and provides  
environmental protection



# Questions?

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Thank you for your time!

**Prasanna Srinivasan**

[Prasanna.Srinivasan@parker.com](mailto:Prasanna.Srinivasan@parker.com)

Connect with me on [LinkedIn](#)