



AMERICAN ENGINEERING GROUP

PRODUCT DEVELOPMENT PROJECTS

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Operations Manager



ISO 9001:2015

Innovation: Patent (AEG IP)

AEG, through its founders, holds numerous utility and design patents pending by the United States Patent Office. Following are some examples:

- Torsional Damper
- Three Piece Golf Ball
- Bi-polar plate for Fuel Cell
- Fuel cell dual seal
- Polyurethane solid tires
- Tire Performance, Durability & Quality Prediction
- Flexible Personal Armor
- Dual Damper
- Carbon Fiber Tires
- Posture Perfect Backpack
- Carbon Fiber Knee Brace

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AEG Defense Engineering Products & Services

Composite Product Experience

- Flexible Armor appliqué (recent project with defense)
- Composite Vehicle Armor
- Composite Military Shelter
- Honeycomb Aircraft Wing
- Carbon Fiber Tires(run flat with wireless monitoring system)
- Wireless sensors system for health monitoring of vehicle systems (on-board system)
- for sensing -pressure, acceleration, temperature and deflection

Component Prototyping

- Prototype development: Metal, Rubber, Composites and Plastics
- FMEA and testing

AEG Defense Engineering Products & Services (contd..)

Computer Simulation and Analysis

- Solid Modeling
- Analysis Capabilities (FEA, CFD and NVH)

Product Manufacturing Experience

- Manufacturing capability in Metal, Rubber, Plastic and composite components

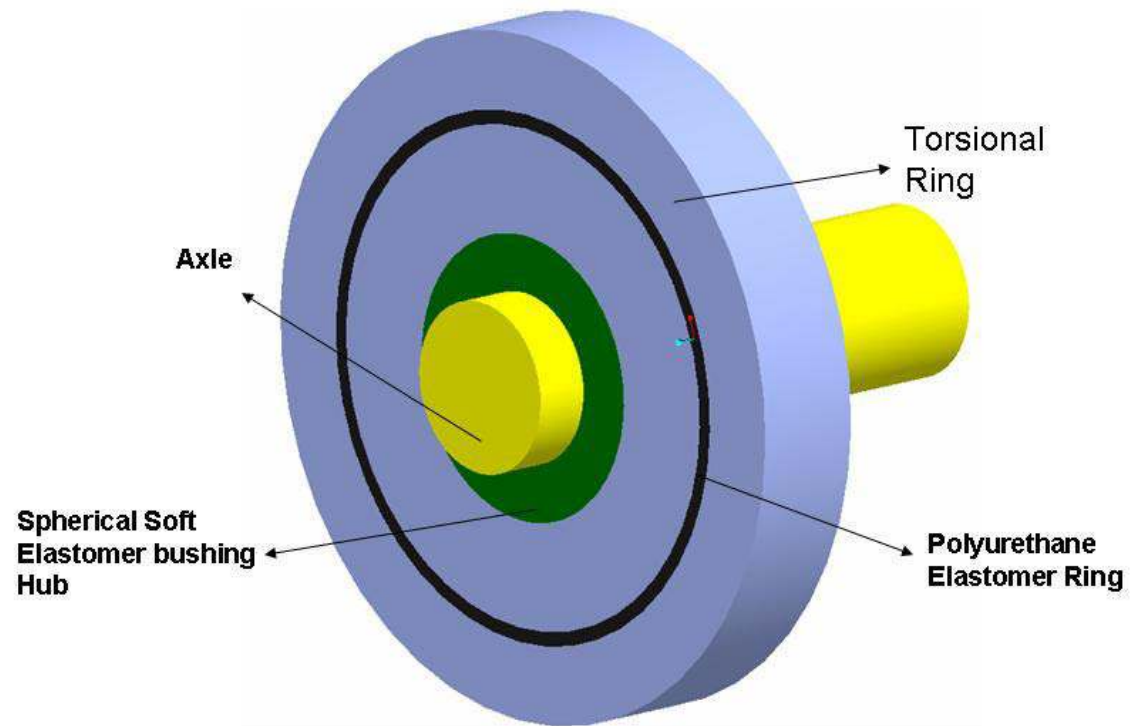
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Posture Perfect Back Pack Insert



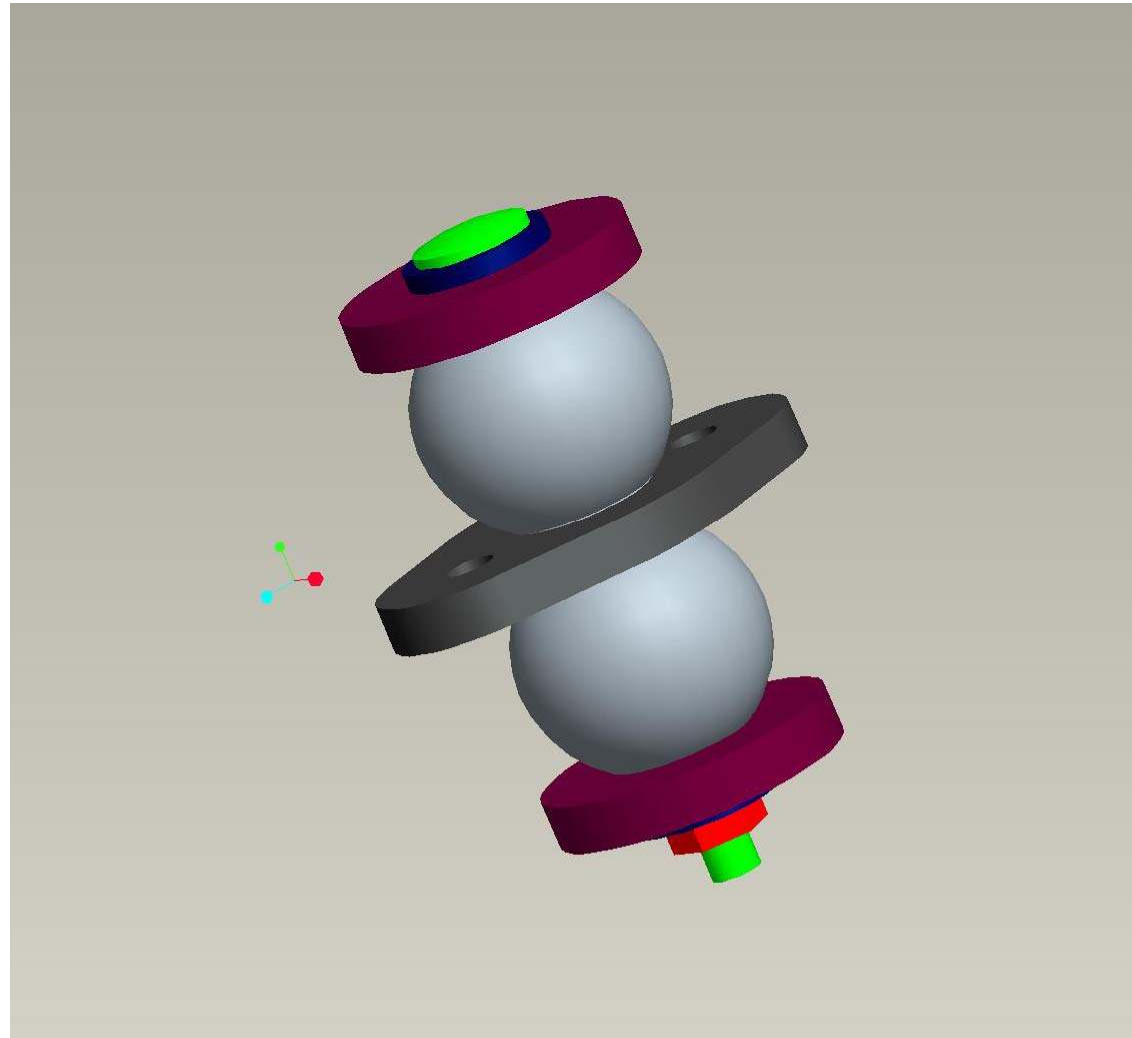
Note: Received 6 awards including awards from the Cleveland Clinic Lerner Research Institute and the Cleveland Clinic Department of Biomedical Engineering

Dual Elastomer Torsional Damper System

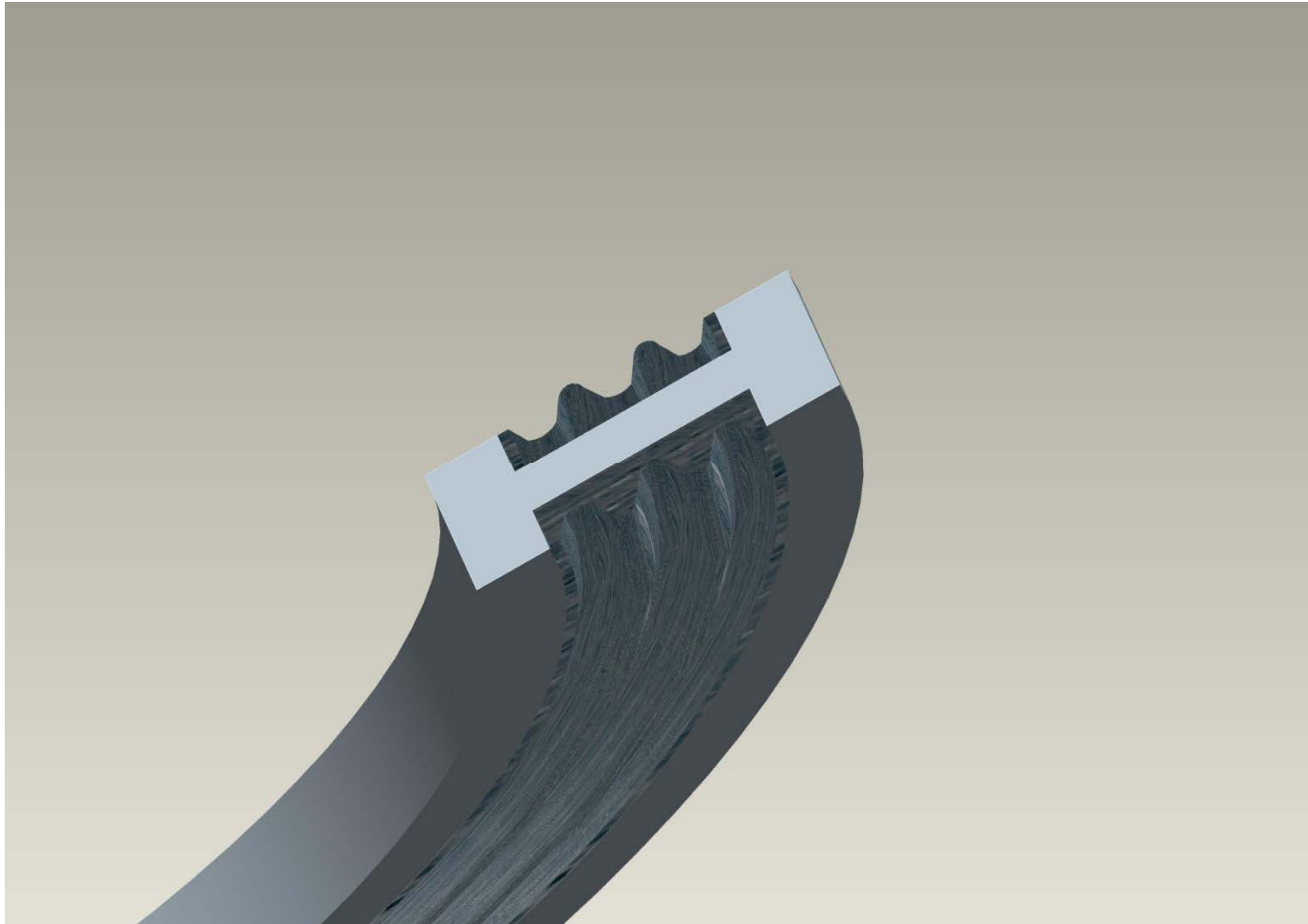


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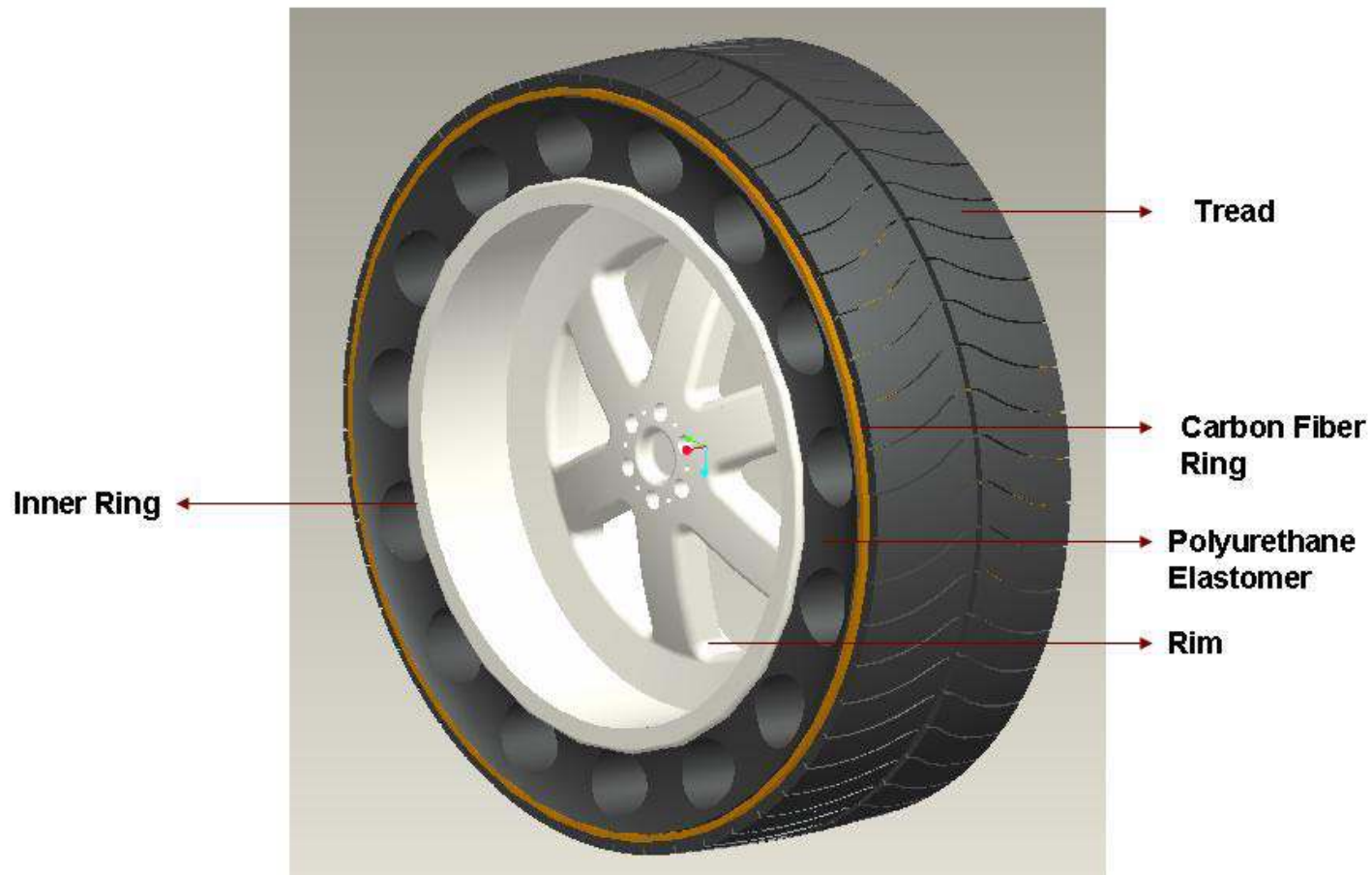
Shock and Vibration Mounting System



Fuel Cell Nanocomposite Double Lip Seal



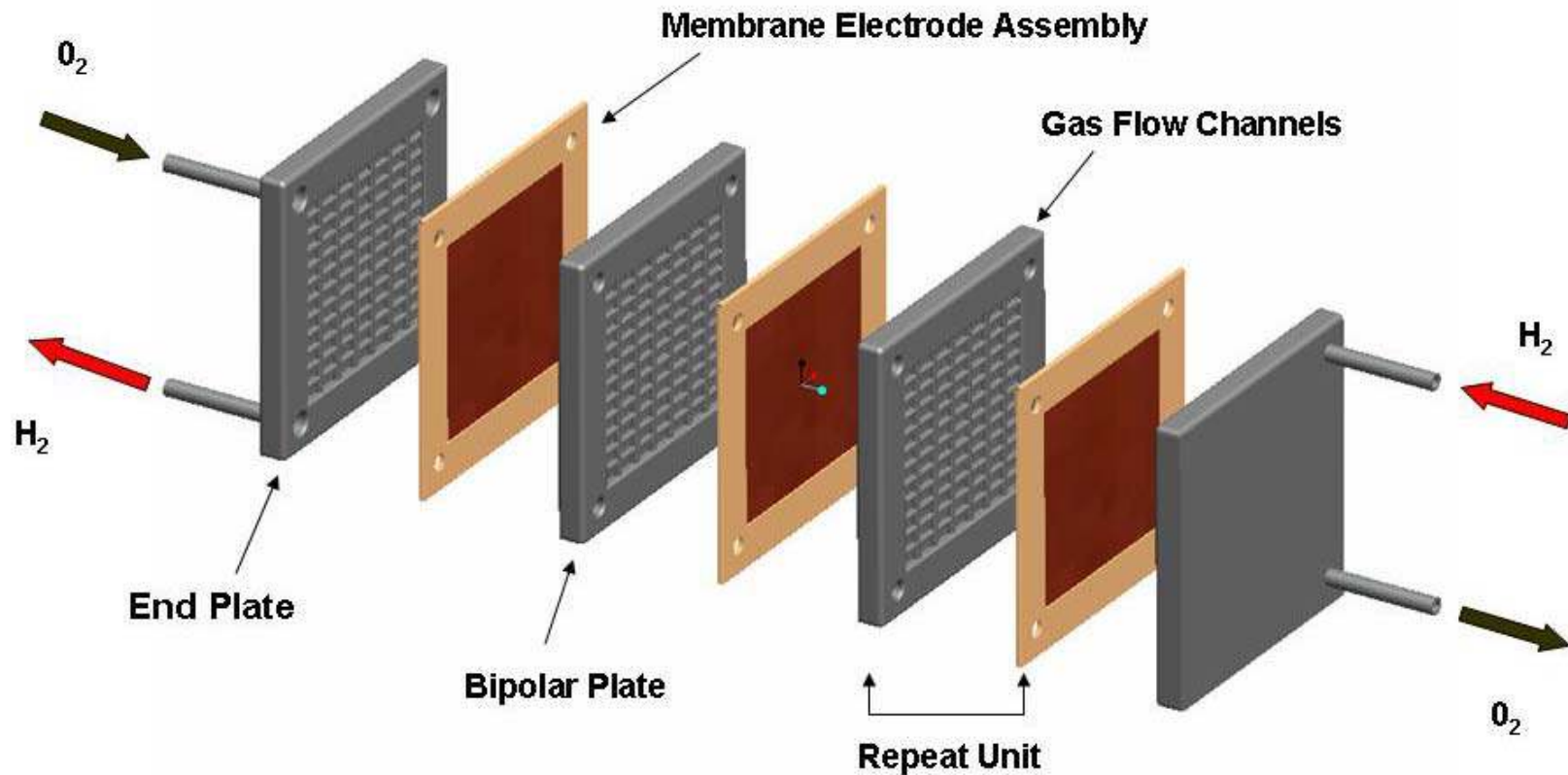
Carbon Fiber-Polyurethane Solid Tire



Note: Published in Tire Asia, Edition: Feb/Mar 2009, Pg 56

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Carbon Fiber-Elastomer Composite Bipolar Plate for PEM Fuel Cells



Note: AEG has been awarded SAE 2008 tech award for this innovative Concept

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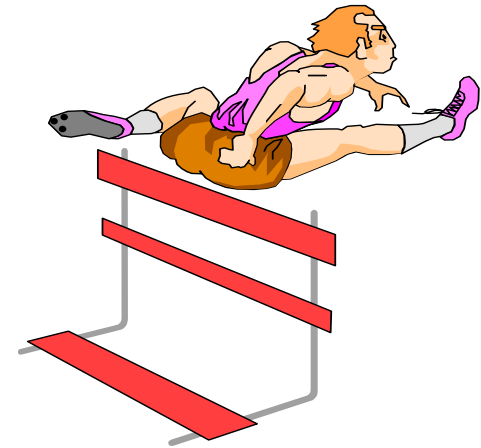
- See our Technical briefs for more information about the above products

www.engineering-group.com/technical_briefs.php

Thank you

- **Product Development**
 - **Failure Analysis**
- **Finite Element Analysis**
 - **Prototyping**

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“Progress through continuous innovation, technology and customer success”