



## HOW OUR CAPABILITIES MATCH YOUR ENERGY NEEDS

For more than sixty years, Bishop-Wisecarver has created innovative solutions for tough mechanical engineering challenges for a variety of industries including Energy. We continue to make high quality products tailored to each customer's needs that provide durability, long life and reliable functionality for the most complex and heavy duty designs.

Customers like us because our collection of linear and curvilinear motion technologies provide them with product differentiation and customizable solutions to fit virtually any environment. From dirty and corrosive conditions to cleanroom and washdown settings, our products come in many sizes, lengths, material types and customizations no matter how few or many you order. Whether you need straight, back and forth motion or a curved track solution with custom bends and turns, we have the technologies and resources to fit your needs to a vee.

## SOLVED ENERGY DESIGN CHALLENGES

### Heavy Duty Motion Need for Solar Tube Transfer

A manufacturer of solar tubes needed to transfer them from one palette to another. They chose our heavy duty corrosion-resistant stainless steel linear slide system to move the tubes 6 meters back and forth via connected carriages. The customer also needed our rack and pinion drive with a sturdy beam for added rigidity.

### Tough Linear Actuators for Wind Turbines and Towers

Outside structures are often placed in harsh environments, where wind conditions are ideal but the equipment is exposed to severe weather, saltwater and humidity. Our tough actuators are vital for protecting concealed components from extreme conditions.

## WHAT MAKES US DIFFERENT

Our engineering and manufacturing facility provides expert development support and quick turnaround time. We tackle all engineering challenges with a novel approach — we have the patents to prove it and are majority sourced USA.

We offer custom engineering services and technical expertise in motion, sensor and actuator integration, real-time software development, and electromechanical modeling and design.

As the original inventor of DualVee Motion Technology®, we offer a high quality v-bearing guide wheel technology that is excellent for high speed, smooth motion, low noise and long lengths. DualVee® comes with four guide wheel options: original v-bearing wheels, studded v-bearing wheels, patented integral v-bearing wheels and patented washdown wheels.

## FEATURED PRODUCTS BASED ON LINEAR GUIDE WHEEL TECHNOLOGY

**HDRT Heavy Duty Ring and Track** — Use ring segments and straight slides to create a custom track shape able to carry large loads in critical working environments.

**HDS2 Heavy Duty Slide System** — Offers large increased load capacity bearings, single-edge vee slides and flat track, a variety of drive options and corrosion-resistant stainless steel components, making this ideal for high load applications.

**LoPro® Linear Actuators** — Offers smooth, quiet motion over long lengths with four types of actuation: belt, chain, lead screw and ball screw. Gantry systems are available.

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Bishop-Wisecarver is a certified woman-owned manufacturer in its second generation, and has remained one of the most respected names in custom automation solutions and guided motion technology since 1950.

The San Francisco Bay Area company manufactures, stocks, and distributes components and systems for linear, rotary and curved track applications globally, and has been the exclusive North and Central American Partner and Distributor for HepcoMotion® products since 1984.

Our desire to be your number one choice is what drives us to continually develop our industry knowledge, services and imagination — whether it is an off-the-shelf product or a custom solution, we fit you to a vee.

### Product Offerings:

- Linear Components & Accessories
- Manual Linear Guides
- Actuated Linear Guides
- Complete XYZ Systems
- Rotary Components & Accessories
- Rings & Curved Track Segments
- Rotary Guide Systems
- Custom Solutions

### Industries Served:

- Aerospace & Defense
- Aircraft & Automotive
- Architecture
- Consumer Products
- Conveying Equipment
- Electronics
- Energy
- Entertainment
- Food Processing & Packaging
- General Automation
- Industrial Machinery
- Instrumentation
- Lab Automation
- Liquid Handling
- Machine Tool
- Material Handling
- Medical Device Manufacturing
- Packaging
- Paper & Textiles
- Powertransmission & Railway
- Printing Machinery
- Printed Circuit Assembly
- Research & Development
- Relay & Industrial Controls
- Radio & TV Broadcasting
- Robotics
- Semi-Conductor Fabrication
- Surgical Equipment
- Transportation
- Welding & Soldering
- Wood Processing