



HOW OUR CAPABILITIES MATCH YOUR SEMICONDUCTOR INDUSTRY NEEDS

For more than sixty years, Bishop-Wisecarver has created innovative solutions for tough mechanical engineering challenges for a variety of industries including semiconductor manufacturing machinery. We continue to make high quality products tailored to each customer's needs that provide durability, long life and reliable functionality for the simplest and most complex of designs. Our wide array of linear and rotary motion guides lend themselves well to strict specifications and environments.

Customers like us because our collection of linear and curvilinear motion technologies provide them with 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 SEMICONDUCTOR DESIGN CHALLENGES

Heavy Duty Slides Easily Adapt to Semiconductor Technology

Our heavy duty slide system is being used for the transfer of solar tubes from one palette to another, moving bridged carriages back and forth over ten feet of travel. The slide solution includes bearings with increased load capacity, added rigidity using construction beams in two sizes, and single vee-edge slides and flat track for smooth motion.

Double Vee-Edge Bearings Smoothly Guide Semiconductor Transfers

A manufacturer of silicon wafers used our double vee-edge linear guide wheels and matching track for front end material handling applications. It was crucial that the moving silicon wafers are transported from one station to the next smoothly and accurately.

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 linear guide wheel technology that is excellent for high speed, smooth motion, low noise and long lengths. DualVee® comes in many versions: original, studded, high temperature, low temperature, cleanroom, patented integral and patented washdown.

FEATURED PRODUCTS BASED ON LINEAR GUIDE WHEEL TECHNOLOGY

HDS2® Heavy Duty Slide System — Stainless steel and corrosion resistant components come standard, making this product line an ideal solution for many high load applications. Variety of track sizes, accessories and drive options are also available.

DualVee Motion Technology® — Available in carbon and stainless steel, DualVee is ideal for high and low temperatures, washdown, dirty or high debris conditions. Traveling at speeds up to 5.5 m/s and acceleration up to 5 g's, Dualvee is quiet and long lasting, perfect for long lengths. Single and double edge track available. Discover our manual and actuated linear guides based on our proven linear guide wheel technology.

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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 and Packaging
- General Automation
- Industrial Equipment
- 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
- Semiconductor Fabrication
- Surgical Equipment
- Transportation
- Welding & Soldering
- Wood Processing