



## HOW OUR CAPABILITIES MATCH YOUR FOOD PROCESSING AND PACKAGING NEEDS

For more than sixty years, Bishop-Wisecarver has created innovative solutions for tough mechanical engineering challenges in a variety of industries including Food Processing and Packaging. We continue to make high quality products tailored to each customer's needs that provide durability, long life and reliable functionality for even the most complex designs operating under strict rules and procedures.

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 tee.

## SOLVED FOOD PROCESSING AND PACKAGING DESIGN CHALLENGES

### Pick, Place and Package Environment Ideal for Guide Wheel Technology

Tasked with packing cases, loading trays, palletizing cells and various loading and unloading functions, a manufacturer of robotic material handlers for the food industry needed out proven and tested guide wheel technology for heavy loads and harsh environments.

### Weighing in with Precision Ring and Track

A packaging plant wanted to design a multi-ingredient dosing and weighing system more adaptable than any other in the industry. The plant needed stability, precise positioning, low-friction motion and high load capacity to produce the best packaging system. They opted for our high precision ring and track system to guide "smart carts," which are individually fixed to carriage plates mounted on a precision monorail track.

## 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

**DualVee® Washdown Guide Wheels** — Patented washdown guide wheels are made of all stainless steel construction, FDA approved grease and AISI type 440C stainless steel balls and races — both sealed and shielded for added protection from liquids and debris.

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

**PRT2 Precision Ring and Track** — Stainless steel precision ring and track systems include a wide range of single/double edged rings, slides and segments. This low-friction, debris-tolerant system offers many sizes, track shapes and customizations.

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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 tee.

### 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
- 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