



HOW OUR CAPABILITIES MATCH YOUR WOODWORKING MACHINERY NEEDS

For more than sixty years, Bishop-Wisecarver has created innovative solutions for tough mechanical engineering challenges for a variety of industries, including woodworking. We continue to make high quality products tailored to each customer's needs that provide durability, long life and reliable functionality. 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 granite and glass dust to metal shavings and sawdust. 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, we fit your needs to a vee.

SOLVED WOODWORKING MACHINERY DESIGN CHALLENGES

Linear Guide Wheels and Track for Woodworking

In an environment choked with sawdust and wood chips, clogging can be a problem, so when a manufacturer of CNC wood-carving machines needed smooth motion, they used our linear guide wheels and matching track to move cutters across sections of wood. The 90-degree wheels sweeps away debris and prevents the machine from jamming up.

Sloughing Off Sawdust

A manufacturer of prefabricated log homes needed our durable linear motion components for an application exposed to lots of wood chips and sawdust. Integrated into the sawing machine guidance system, the wheel's design kept the track clean and the machine running smoothly with minimal maintenance.

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 Motion Technology® — Available in carbon and stainless steel, DualVee is ideal for high and low temperatures, washdown, dirty or high debris conditions. With 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.

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.

GV3 Linear Guidance and Transmission — A wide array of precision linear guide components utilizing guide wheel and roller wheel technology. Slides are available in three different precision grades, ranging from completely ground surfaces to as-drawn quality, to fit performance and economic needs.

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Bishop-Wisecarver is a certified woman-owned manufacturer in its second generation as a family-owned business, 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
- 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
- [Woodworking Machinery](#)