



HOW OUR CAPABILITIES MATCH YOUR MEDICAL DEVICE NEEDS

For more than sixty years, Bishop-Wisecarver has created innovative solutions for tough mechanical engineering challenges for a variety of industries including Medical Device Manufacturing. We continue to make high quality products tailored to each customer's needs that provide high speeds, long life and durability. Customers like us because our collection of linear and curvilinear motion technology based products 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.

SOLVED MEDICAL INDUSTRY APPLICATION CHALLENGES

Vascular Grafting in Motion

A design engineer had the challenge of building a linear actuator setup that could wind vascular grafting material within very exact specifications — precision was key because the material had to last and function after surgery.

Staining Process Machine Gets Faster and More Efficient

Our linear guides were needed to support the parallel workflow processing of walk-away lab analysis automation to improve lab efficiency and staining quality.

Custom Five-Wheel Carriage for "Easy-to-Guide" Vertical Motion

A contract manufacturer of custom, high-value carts, consoles and tables required our vertically mounted linear guide system to easily raise and lower a support shelf on a cart designed for a portable device. It needed to be cost efficient and provide smooth operation and stability when the cart was in the fully-raised position.

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. The DualVee® line comes with four guide wheel options: The original v-bearing wheels, studded v-bearing wheels, patented integral v-bearing wheels and our patented washdown wheels.

FEATURED PRODUCTS BASED ON DUALVEE MOTION TECHNOLOGY®

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.

UtiliTrak® Linear Guides — Ideal for running two parallel systems, where one slide runs on v-bearings and the other on MadeWell® crowned rollers to compensate for misalignment.

MinVee® Miniature Linear Guides — Low-profile miniature linear slides are composed of a compact carriage assembly and a double-edged track. Non-actuated versions use our smallest wheels available (size 0) in either polymer or steel.

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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
- 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