Bishop-Wisecarver Corporation: Manufacturer of the original DualVee® guide wheel and industry leader in guided motion technology, and exclusive North and Central American partner and distributor for HepcoMotion products since 1984.

Bishop-Wisecarver
DualVee® Guide Wheels
LoPro® Linear Motion System
MadeWell® Crown Rollers
MinVee® Linear Slide System
QuickTrak® Clamp Extrusion
UtiliTrak® Linear Motion Guide

HepcoMotion®
DAPDU2 Double Acting Profile Driven Unit
DLS Driven Linear System
DTS Driven Track System
GV3 Linear Guidance and Transmission System
HDCB Heavy Duty Compact Beam
HDCS Heavy Duty Compact Screw
HDLS Heavy Duty Driven Linear System
HDRT Heavy Duty Ring Slides and Track System
HDS Heavy Duty Slide System
MHD Heavy Duty Track Roller Guidance System
MCS Machine Construction System
PDU2 Profile Driven Unit
PRT Precision Ring and Track System
PSD120 Profile Screw Driven Unit
SBD Sealed Belt Drive
Simple-Select®
SL2 Stainless Steel Based Slide System

Bishop-Wisecarver’s wide range of linear motion systems and components provides complete versatility for the broad and diverse machine tool industry. Originally designed for harsh environment applications where existing technologies were ineffective, DualVee excels in extreme conditions. The vee design creates a velocity gradient, which results in a constant sweeping action that cleans debris from the track. Available for linear, rotary and curved track applications, guided motion solutions from Bishop-Wisecarver are limited only by your imagination.

Why DualVee®?
• Speeds up to 5.5 m/s
• Install or replace in minutes
• Self-cleaning action sweeps metal chips and other debris from the track
• Lubed for life to keep equipment up and running
• Long length systems for transfer between processes or conveyor lines
• Gantry ready systems for material handling
• Custom design and manufacturing

PRODUCT ORDERS
Please call Bishop-Wisecarver with your specific application requirements. Our technical staff is available to assist with your custom solution.

Bishop-Wisecarver provides a written three year limited warranty on our Swiss bearings and a written one year limited warranty on all other products, assuring the customer that its products conform to published specifications and are free from defects in material or workmanship.

Complete terms and conditions and warranty information is available at www.bwc.com/about_conditions.vp.html.

3D CAD DRAWINGS
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888.580.8272  925.439.8272  www.bwc.com

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As the pioneer of DualVee technology, Bishop-Wisecarver offers the widest range of guide wheel based linear motion products in the world. Our products are available in a variety of sizes to accommodate loads of all types, and a large selection of options and accessories make the possibilities virtually endless.

Our in-house applications engineering team is available to assist you in designing a custom solution to fit your unique application needs.

### Products

**Wheels**
- Carbon steel, polymer and stainless versions from stock
- 6 standard sizes to accommodate envelope and load carrying requirements
- Choose from original DualVee, studded guide wheel assemblies, or new patented integral wheels
- Sensitive rolling elements are isolated from the environment

**Track**
- Patented mounting shoulder for ease of installation
- Single piece lengths up to 20 feet hardened, 22 feet unhardened, easily joined for long lengths
- 1045 carbon steel or 420 stainless steel from stock
- Custom plating options include black oxide, thin dense chrome, electroless nickel, or zinc

**PW Series**
- Lightweight, low cost, corrosion resistant
- Polymer overmoulded stainless steel integral DualVee wheels and MadeWell® crown rollers
- 6063-T6 aluminum alloy channel
- Loads to 311N

**SW Series**
- Excellent load capacity, high speeds
- Steel integral DualVee wheels and MadeWell crown rollers
- One piece ground alloy bearing steel channel
- Loads to 14,040N

**CR Series**
- Good load capacity, corrosion resistant
- 440C stainless steel DualVee wheels
- Stainless DualVee track on extruded aluminum channel
- Loads to 5,739N

**QuickTrak® clamp extrusion**
- Offers a quick and economical way to accurately mount DualVee track.

**A multi-lateral drill press table pre-drills sections for mounting door hardware.** In this particular application, the drawer needed to support up to 1,000 lbs, cantilevered up to 48”.

**An automated multi-head drilling machine drills successive rows of 112 holes in large sheets.** HepcoMotion® HDS Heavy Duty Slide system was selected because it provided the rigidity needed for accuracy.

**Three ball screw driven LoPro systems are used on this plasma cutter, which operates in a very harsh environment consisting of smoke, abrasive dust, weld spatter, hot sparks, and elevated temperatures.**

**With metal shavings flying, intensified by cutting fluids that help the shavings stick to all surfaces, this CNC turning center uses DualVee wheels and track to move its heavy doors as well as the bar feeder. DualVee stands up to the rigors of constant opening and closing in a high debris environment.**
Application Examples

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LoPro®
- Low profile linear actuator built on proven DualVee technology
- Belt, chain, ball screw, lead screw or un-driven
- Excellent for long length applications such as material transfer
- 4 sizes to accommodate loads up to 15,684N
- Complete line of gantry accessories and motor mounts
- Corrosion resistant versions available

DualVee®

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UtiliTrak®

Bridge Connections Available

QuickTrak® clamp extrusion offers a quick and economical way to accurately mount DualVee track.

A multi-lateral drill press table pre-drills sections for mounting door hardware. The drill press forms holes for hinges, miter joints and door hardware. The driven LoPro system is ideal in an environment contaminated with debris.

An automated multi-head drilling machine drills successive rows of 112 holes in large sheets. HepcoMotion® HDS Heavy Duty Slide system was selected because it provided the rigidity needed for accuracy.

A high duty, high speed pick and place application uses HepcoMotion DLS4 belt driven actuators for the X and Y axes, and HDCB Heavy Duty Compact Beam for the Z axis.

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Guided Motion Solutions for Machine Tools and Associated Products

**Designed for Critical and Extreme Environments**

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