

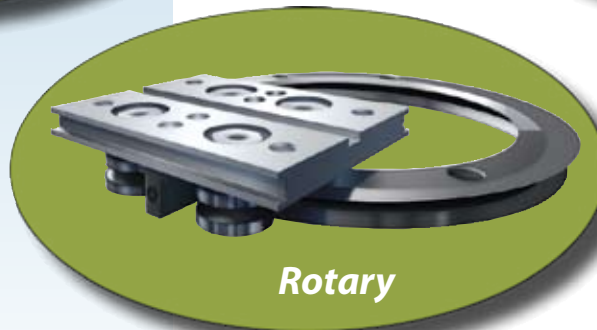
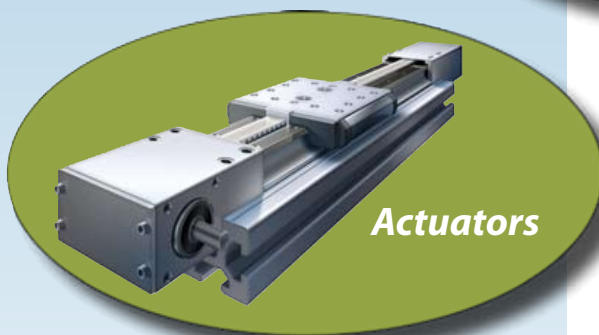
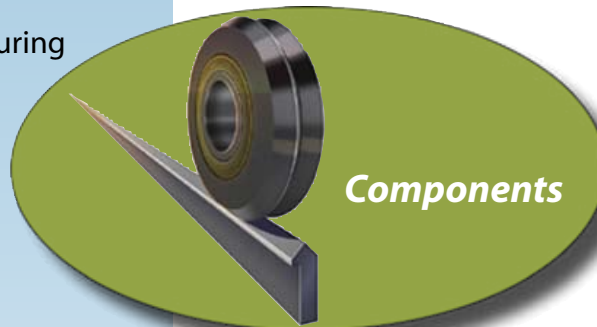
# Guided Motion Solutions for Woodworking

## *Designed for Critical and Extreme Environments*

### Why **DUALVEE®** ?

- Speeds up to 5.5 m/s
- Install or replace in minutes
- Self-cleaning action sweeps wood chips and sawdust 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

Bishop-Wisecarver's wide range of linear motion systems and components provides complete versatility for the broad and diverse woodworking 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.



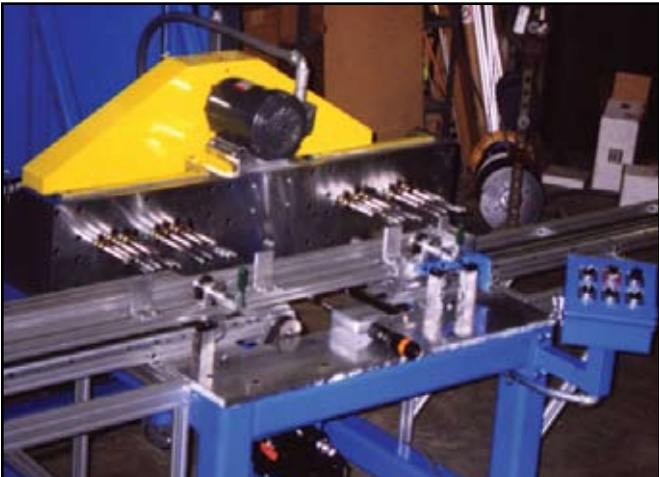
## Application Examples



This multi-axis guidance system automatically mills notches in heavy logs used in prefabricated log homes. DualVee components installed in early 2003 are still operating without apparent wear, and without any lubrication on the tracks.



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 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.



This CNC Router uses DualVee wheels and track because of its high speed capability, accuracy and self-cleaning action.



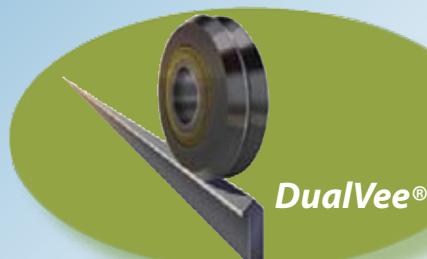
A flying shear exposed to gritty, fine dust and glue uses DualVee, because it forces the debris off the ends of the track like a squeegee. "Five to six million cycles later, it remains a really reliable, simple-to-use system," according to the unit manager responsible for the redesign.



## Products

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.



**DualVee®**

### 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



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



**UtiliTrak®**

### PW Series

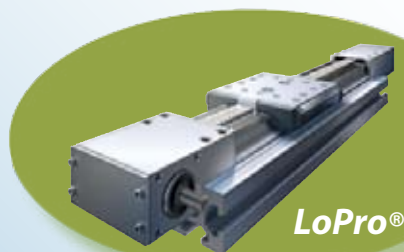
- Lightweight, low cost, corrosion resistant
- Polymer overmoulded stainless steel integral DualVee wheels and MadeWell® crown rollers
- 6063-T6 aluminum alloy channel
- Loads to 311N

### 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



**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



**PRT**

- Create customized systems to follow virtually any path
- 360, 180 and 90 degree rings, curved segments, and straight slides
- Nine diameters from 93mm to 1,033mm
- Gear drive option on inner or outer diameter provides means of actuation
- Available in carbon or stainless steel

**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.

## **BISHOPWISECARVER®**

### **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

### **3D CAD DRAWINGS**

Download 3D CAD files for our complete product line at [www.bwc.com/3dcad.php](http://www.bwc.com/3dcad.php).

### **GOT A TOUGH APPLICATION CHALLENGE?**

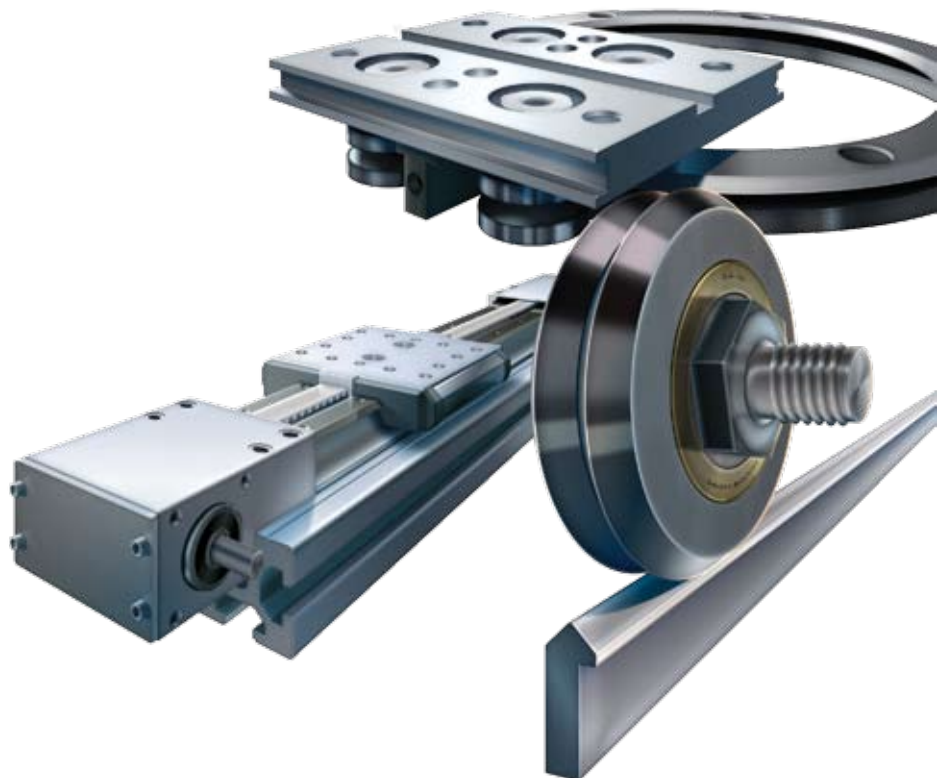
Ask Bud at [www.bwc.com/blog/?cat=11](http://www.bwc.com/blog/?cat=11).

### **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](http://www.bwc.com/about_conditions.vp.html).



**888.580.8272 925.439.8272 [www.bwc.com](http://www.bwc.com)**

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