Bishop-Wisecarver products are the right fit for automated cutting and slitting applications because they provide **maximum durability against debris**; They are **built to last**, even when operating **high-throughput** machines and **extreme conditions**.

**DURABLE AGAINST DEBRIS**

At the core of our systems and actuators is DualVee Motion Technology®. As vee wheels run on their matching track, the angled profiles wipe debris away, preventing buildup and motion system failure.

DualVee Motion Technology® **cleans itself** against cutting debris – large, fine, wet, and highly abrasive:

- Metal chips and dust (dry or wet cutting)
- Residual particulate from abrasive waterjet
- Dross / slag from plasma cutting
- Glass shards and dust (dry or wet cutting, grinding, and seaming)
- Carbon fiber

- Paper, cardboard, and packaging particulate
- Wood debris
- Food product (dry, wet, or sticky)
- Plastic swarf and particulate
- Fibrous materials, such as textile fibers
- Cutting in the presence of dirt, dust, and adhesives

Fully sealed motion systems, protective covers, and sealed/shielded components add even more layers of protection as needed!
LONG-LASTING MOTION SYSTEMS

Importantly, Bishop-Wisecarver systems inherently provide long life with low maintenance. See how our DualVee® wheel and track systems outlast and outperform the competition in this whitepaper:

ENHANCED THROUGHPUT

- Speeds up to 18 ft/s (5.5 m/s) and accelerations up to 5 g’s enable high throughput cutting and slitting processes.
- Durability and low maintenance can reduce shutdown time for end users and increase profit.
- DualVee Motion Technology® enables quick and smooth adjustment for reduced changeover times.

EXCEL IN THE TOUGHEST ENVIRONMENTS

In addition to high debris and high throughput applications, Bishop-Wisecarver provides solutions for your toughest motion challenges.

- Hygienic and food grade: Stainless steel construction + H1 grease OR without lubrication
- Caustic washdowns: patented high-pressure wheel seal
- High temperatures (up to 500° F / 260° C)
- Low temperatures (down to -94° F / -70° F)
- High load and moment capacity options

GET DESIGNING FAST

Our expert Application Engineers can help you design linear, rotary, complex curve, and multi-axis motion systems to meet all your application requirements.

Our customers tell us that Bishop-Wisecarver is much better than the competition by being easy to do business with, delivering on time, and providing products and services they can rely on. Leveraging 70 years of experience, Bishop-Wisecarver has earned the reputation for providing unmatched service and engineering support for every stage of your design cycle.

Check out our product selector and CAD downloads to learn how our products fit your needs.