



CUTTING/SLITTING



CUTTING



HIGH SPEED



LONG
LIFE



DEBRIS
RESISTANCE



LOW
MAINTENANCE

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:

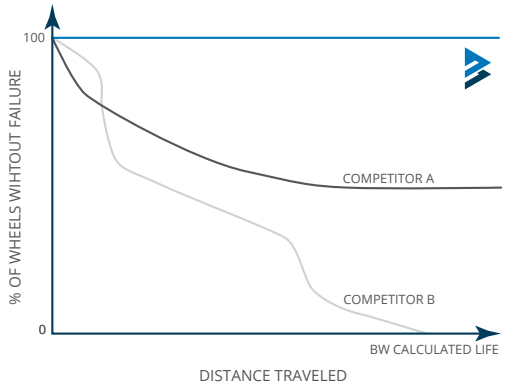
- *Metal chips and dust (dry or wet cutting)*
- *Residual particulate from abrasive waterjet*
- *Dross / slag from plasma cutting*
- *Glass shards and dust (dry or wet cutting, grinding, and seaming)*
- *Carbon fiber*
- *Paper, cardboard, and packaging particulate*
- *Wood debris*
- *Food product (dry, 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](#):

PERCENT OF WHEELS WITHOUT FAILURE VS. DISTANCE



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.

Take the guesswork out of designing gantries. Learn about our [Gantry Kits](#).

