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Air-Oil Systems, Inc.

AUTOMATION SOLUTIONS

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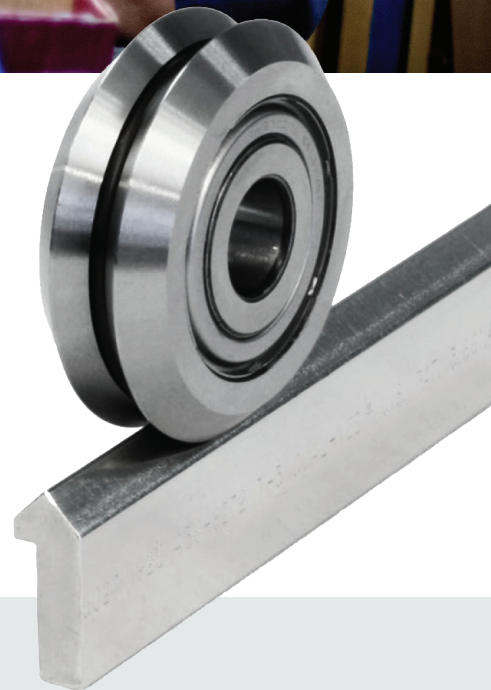
www.airoil.com



CAPABILITIES OVERVIEW

Bishop-Wisecarver (BW) develops innovative automation solutions that are expertly designed and delivered to perform from a company you can trust.

Leveraging more than 70 years of experience, Bishop-Wisecarver has earned the reputation for providing unmatched quality, reliability, service and technical engineering support for every stage of a customer's design cycle. Combining long-lasting performance in harsh and extreme environments with ease of installation, our products offer the lowest total cost of ownership for a wide variety of applications ranging from aerospace and medical to packaging machinery to landmine detection devices and more.



SERVICE AND SOLUTIONS

Automation & Motion Control Systems

BW provides complete automation and robotic motion systems that are used in a wide range of applications from food packaging machinery to motion picture filming sets. We develop and supply integrated motion control projects involving durable mechanical products, electronic systems, and software programming.

Complex Assemblies & Custom Solutions

BW is a trusted supply chain partner that extends the capabilities and success of our customers' businesses. We consolidate multiple vendors and parts into complete sub-assemblies and solutions that streamline sourcing, scheduling, and production. We offer complex assembly of mechanical, electrical and custom components into products that are ready for installation and operation.

Motion Products & Production Support

BW offers the widest range of guide wheel based linear and rotary motion solutions in the world. Many standard catalog items are available in a variety of designs, sizes, and materials suited for every operational environment. BW offers engineering services to refine product concepts into manufacturing ready designs.

BUSINESS CAPABILITIES

Bishop-Wisecarver is a trusted and reliable partner for engineered linear and rotary motion products used in robotics and automated motion control projects that range from standard catalog motion components to complex sub-assemblies and complete custom complex integrated motion systems. Our innovative products, world-class engineering, and custom manufacturing capabilities offer unsurpassed design flexibility. Through our global distribution partners, BW can support your application anywhere in the world. Motion solutions from Bishop-Wisecarver are limited only by your imagination.



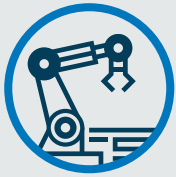
Complex Assemblies

- Electro-mechanical assembly
- Supply chain & assembly services
- Purchase order consolidation
- Vendor management
- Kitting



Motion Products

- Linear guide bearings
- Linear actuators & motion stages
- Rotary & curvilinear motion guides
- Multi-axis actuated systems
- Automated motion systems



Automation & Integration

- Mechanical motion system design
- Electronic controls engineering
- Software & motion system integration
- Motion control system analysis



Production Support

- Profile extrusion design & finishing
- CNC milling/turning, grinding
- Fabrication, prototypes, production
- Finish coating, anodizing, painting

TOP NAIC CODES

325414 - Biological Product (Except Diagnostic) Manufacturing

332312 - Fabricated Structural Metal Manufacturing

332710 - Machine Shops

332721 - Precision Turned Product Manufacturing

332999 - All Other Miscellaneous Fabricated Metal Product Manufacturing

2315341 - Custom Assembly Fixtures or Tooling (UNSPSC Code)

333111 - Farm Machinery and Equipment Manufacturing

333241 - Food Product Machinery Manufacturing

333517 - Machine Tool Manufacturing

333993 - Packaging Machinery Manufacturing

333999 - All Other Miscellaneous General Purpose Machine Manufacturing

336413 - Other Aircraft Parts and Auxiliary Equipment Manufacturing

336414 - Guided Missile and Space Vehicle Manufacturing

334314 - Relay and Industrial Control Manufacturing

334511 - Search, Detection, Navigation, Guidance, Aeronautical and Nautical System and Instrument Manufacturing

334515 - Instrument Manufacturing for Measuring and Testing Electricity and Electrical Signals

334516 - Analytical Laboratory Instrument Manufacturing

334519 - Other Measuring and Controlling Device Manufacturing

541330 - Engineering Services



EXPERTLY DESIGNED, DELIVERED TO PERFORM™

TECHNICAL CAPABILITIES

Motion Products

- Up to 40k feet of available contract manufacturing production floor space
- Kitting and sub-assemblies to full turnkey solutions
- Quality traceability reports available
- Flexible, scalable workforce
- Single prototypes to thousands per month

Motion Control

- Multi-axis motion control
- Customizable motion trajectories
- Servo drive controllers
- Microcontrollers
- Programmable logic controllers
- Actuators
- Sensors
- Electronics
- Integrating mechanical actuators

Fabrication and Production

- Precision CNC machining
 - Milling, boring, turning, engraving
- Product finishing operations
 - Anodizing, plating, coating
 - Heat-treating, hardening, annealing
- Sheet metal fabrication
- Waterjet and laser cutting up to 60"x120"
- Quality inspection certification, CMM reporting, hardness testing

New Product Introduction

- Prototyping
- Design refinement for production
- Supply chain development
- Alpha beta testing

Engineering Solutions and Design

- Mechanical design
 - Motion systems and actuators
 - Mounting systems and support structures
 - Electronics packaging
- Electrical design
 - Controllers
 - Amplifiers
 - Transducers (sensors, motors)

Engineering Analysis and Modeling

- 3D CAD modeling and 2D drawings
 - Components and assemblies
 - Manufacturing ready designs
 - Dimensioning and Tolerancing
- Finite Element Analysis
 - Mechanical and structural
 - Stress analysis
 - Modal analysis

"Do what you love and it's not work." - Bud Wisecarver, Founder, Bishop-Wisecarver

This simple statement embodies the ongoing innovation, commitment and drive behind everything we do to serve our customers. For more than seven decades, the Bishop-Wisecarver team has focused on developing motion products that solve our customers' greatest needs, while also providing expert, individualized engineering advice and support each step of the way. We don't just make products; we help nourish, heal, shelter, entertain, protect and move the world in the most extreme environments and critical conditions.

Our commitment to you goes beyond mere words. Our "Signature Experience" program begins from the first moment you engage with our team to the successful use and implementation of our products in your application, to any follow up requests you have in the future. And just as Bishop-Wisecarver products are long-lasting even in the most harsh and extreme environments, our goal is to create a relationship with you that stands the test of time as well. Like my father said, when a company has a team that loves what they do, and the customers they are helping, it isn't work. That is a notable difference you will appreciate immediately and come to rely on indefinitely.

I was fortunate to grow up hearing that statement over and over again, and I saw it lived out by my dad on a daily basis. Leading the Bishop-Wisecarver team today is an honor as we continue a legacy of product innovation and success, with the customer relationship at the heart of everything we do.

Pamela Kan,
President/Owner, Bishop-Wisecarver

Signature Experience™ Promise

1 We ensure Bishop-Wisecarver is the Right Fit	4 Customer knows we Appreciate Their Business at every step
2 Documented Processes ensure we listened to the customer's needs and verifies alignment	5 We Proactively Communicate with the customer, keep them up-to-date; Building Confidence in Bishop-Wisecarver
3 Customer receives Customized Solution for their need - even if just one unit	6 We Validate Post Order that we have met/exceeded our customer's definition of successes
7 We guarantee we got it right = 100% Customer Satisfaction	



Quality Certifications



- Certified Bay Area Green Business
- Certified Evergreen

Women's Business Enterprise



- Certified WOSB

Certifications & Compliance

- EN 9100:2018
- JISQ 9100:2016
- ISO 13485 & GMP Compliance
- Responsible Minerals Initiative
- RoHS
- International Traffic in Arms Regulations Compliant

Continuous Improvement Programs

- Six Sigma
- Kaizen / Lean
- 7Q
- Sustainability Efforts

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