

Optimize Motion with Kollmorgen Servo Systems



Experience. Seamless. Performance.

KOLLMORGEN®

Because Motion Matters™

Optimize Your Machine with the Leaders in Motion Control.

Motion is at our core. We consistently maintain the highest standards of quality, innovation and technology. We help you build in exceptional motion performance, reliability and longevity, while considering cost and time-to-market challenges.

Find Your Solution from the Broadest Range in the Industry

Our breadth of products allows for a range of solutions—standard, modified or custom. You can depend on our integrated, optimized components and hit the ground running in any application with ease.

Rely on Our Support and a Global Footprint to Help You Build a Differentiated Machine

With Kollmorgen, you're getting great value and strength. We leverage a team of more than 1,800 employees, and over 60 years of application experience applied to selecting the optimum motion components for your machine. In addition, we have over 1,500 distributor locations around the globe. As always, our field service engineers and support teams are available when and where you need them.

Looking for an Exceptional Motion Control Partner?

If you, too, have a passionate belief that motion matters, you've met your partner. Our range of best-in-class components is unparalleled. Our application expertise and our rapid customization and prototyping capabilities help you build a differentiated machine and get it to market faster.

Experience. Seamless. Performance. It's what our products and our people deliver. It's the Kollmorgen Experience.

Experience.



For Virtually Any Industry, Any Application, Kollmorgen Can Help You Build Your Advantage.

We differentiate our customers' machines through motion in the following applications:

Labeling • Printing • Slitting • Stacking • Folding • Binding • Stitching • Glueing • Die Cutting • Converting
Bagging • Filling • Sealing • Capping • Feeding • Slicing • Forming • Wrapping • Packing • Cartoning
Palletizing • Sorting • Mail Handling • Weighing • Machining • Coating • Laminating • Tire Uniformity • Balancing
Flame/Torch Cutting • Laser Cutting • Plasma Cutting • Water-Jet Cutting • Braking • Punching • Measuring
Electronic Assembly • Semiconductor • Microsurgery • Medical Imaging & Diagnostics



Seamless Performance. Achieve it Quickly and Easily with our AKD™, Rotary and Linear Motors and Positioners.

With our best-in-class, Ethernet-based Advanced Kollmorgen Drive™ (AKD)*, you'll enjoy plug-and-play commissioning for instant access to everything in your machine. Also, when you pair AKD with any of our motors or positioners, you'll achieve optimized performance.

Optimized Performance in Seconds

- Auto-tuning is one of the best and fastest in the industry
- Automatically adjusts all gains, including observers
- Immediate and adaptive response to dynamic loads
- Precise control of all motor types
- Compensation for stiff and compliant transmission and couplings

Greater Throughput and Accuracy

- Up to 27-bit-resolution feedback yields unmatched precision
- Very fast settling times result from a powerful dual processor system that executes industry-leading servo algorithms with high resolution
- Advanced servo techniques such as high-order observer and bi-quad filters yield industry-leading machine performance
- Fastest digital current loop in the market: 0.67 μ s
- Velocity loop: 62.5 μ s
- Position loop: 125 μ s

Easy-to-Use Graphical User Interface (GUI) for Faster Commissioning and Troubleshooting

- Six-channel real-time software oscilloscope commissions and diagnoses quickly
- Multi-function Bode Plot allows users to quickly evaluate performance
- Auto-complete of programmable commands saves looking up parameter names
- One-click capture and sharing of program plots and parameter settings allow you to send machine performance data instantly

Flexible and Scalable to Meet Any Application

- 3 to 96 Arms continuous current; 9 to 192 Arms peak
- Very high power density enables an extremely small package
- True plug-and-play with all standard Kollmorgen servomotors and positioners
- Supports a variety of feedback devices—Smart Feedback Device (SFD), EnDat2.2, 01, BiSS, Analog Sine/Cos encoder, incremental encoder, HIPERFACE®, and resolver
- Tightly integrated Ethernet motion buses: EtherCAT®, SynqNet®, Modbus/TCP, and CANopen®
- Scalable programmability from base torque-and-velocity through multi-axis master



Seamless.

Experience Complete Flexibility and Optimization in Rotary Applications.

Experience Greater Power in a Smaller Package with Advanced Kollmorgen Motors™ (AKM)

With its ability to deliver higher torque density and acceleration in a smaller footprint, AKM gives you great application flexibility. When you combine AKM with AKD, you achieve superior performance and the most cost efficiency. Available with a wide range of mounting, connectivity, feedback and other options, the high-performance AKM series will become your go-to choice.

Achieve the Smoothest Operation Available with Micron™ TRUE Planetary™ Gearheads

Choose from one of the largest selections of planetary gearheads available. We offer high-precision, low-maintenance motion control with high torque-to-volume ratio, high torsional stiffness, and low backlash – for any duty cycle.

Simplify Assembly and Integration with Kollmorgen Cartridge Direct Drive Rotary™ (DDR) Motors

The Cartridge DDR is the next step in direct drive solutions, allowing you to integrate direct drive technology and reap the benefits in even more applications requiring rotary motion, more easily. Its patented mounting method takes only minutes to mount, just like a conventional servomotor.

Streamline Your Design and Reduce Maintenance in Linear Motion Applications.

Eliminate Backlash and Compliance with Direct Drive Linear (DDL) Motors

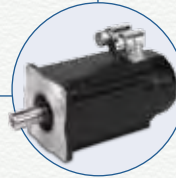
Direct Drive Linear (DDL) Motors provide very smooth velocity, quiet operation, and eliminate other problems associated with mechanical transmission.

Get the Precise Optimized Solution with Our Wide Range of Linear Positioners

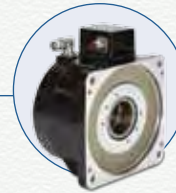
Use our exclusive MOTIONEERING® tool online to help you balance all the variables – stroke length, thrust, other load forces and maintenance – to select from our wide range of precision linear positioners. Also select matching motors and drives for nearly any linear motion application.



Micron™ Gearheads



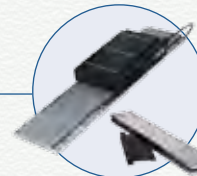
AKM™ Servomotors



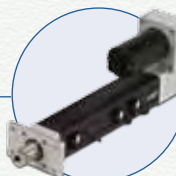
Cartridge Direct Drive Rotary™ Motors



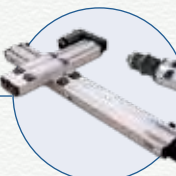
Housed Direct Drive Rotary Motors



Direct Drive Linear Motors



Linear Positioners



Multi-Axis Precision Tables

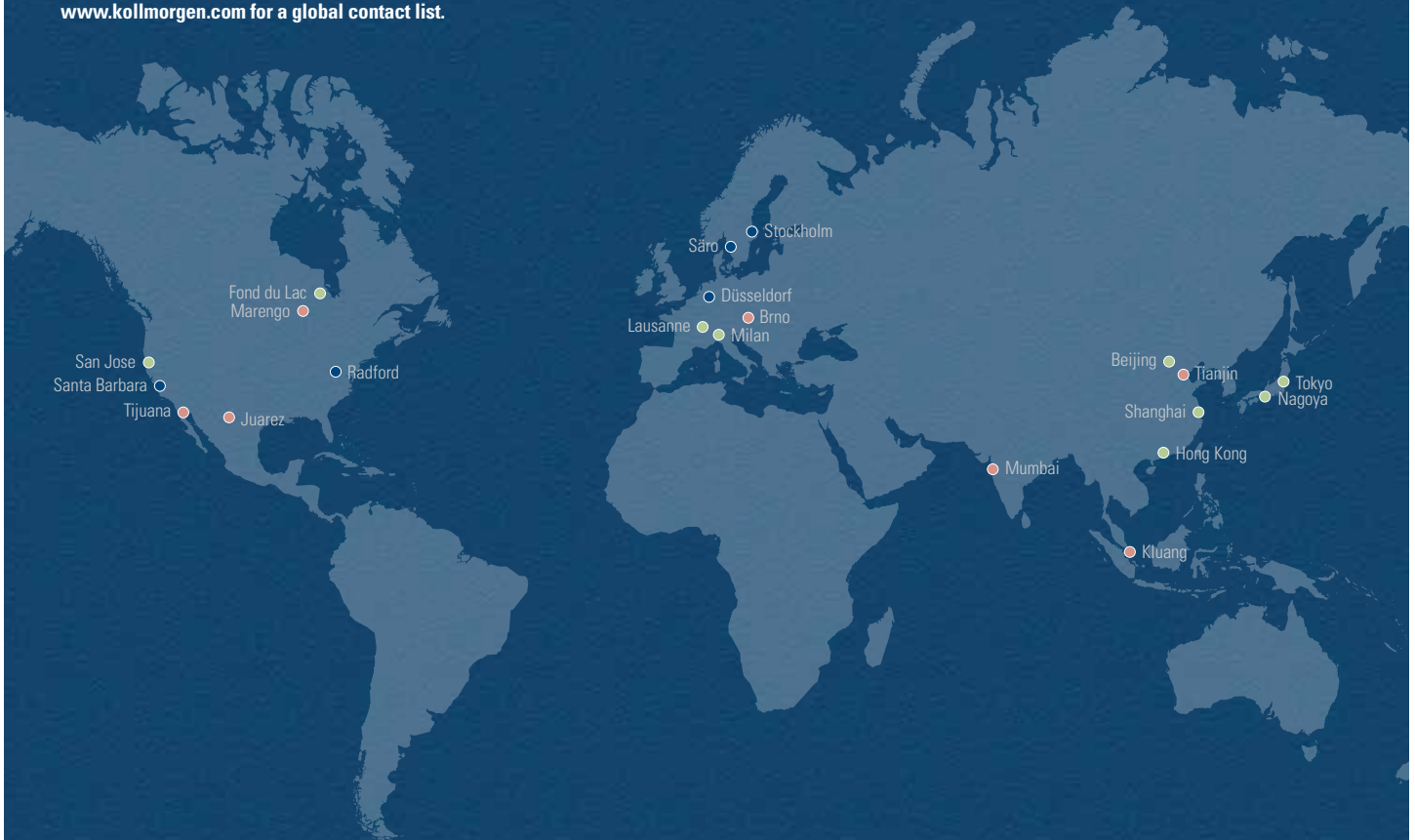
Performance.

About Kollmorgen

Kollmorgen is a leading provider of motion systems and components for machine builders. Through world-class knowledge in motion, industry-leading quality and deep expertise in linking and integrating standard and custom products, Kollmorgen delivers breakthrough solutions that are unmatched in performance, reliability and ease-of-use, giving machine builders an irrefutable marketplace advantage.

For assistance with your application needs in North America, contact us at: 540-633-3545, contactus@kollmorgen.com or visit www.kollmorgen.com for a global contact list.

- Application Centers
- Global Design & Manufacturing
- Global Manufacturing



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Kollmorgen
203A West Rock Road
Radford, VA 24141 USA
Phone: 1-540-633-3545
Fax: 1-540-639-4162