

# Experience Scalable Programmability with Advanced Kollmorgen Drive™



**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?

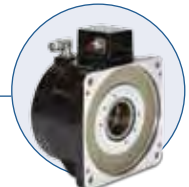
If you, too, have a passionate belief that motion matters, you've met your partner. Our range of best-in-class components is unparalleled. Our application expertise and our rapid customization and prototyping capabilities help you build a differentiated machine and get it to market faster.



Micron™ Gearheads



AKM™ Servomotors



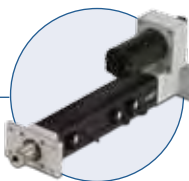
Cartridge Direct Drive Rotary™ Motors



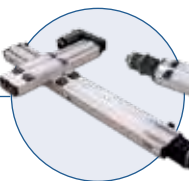
Housed Direct Drive Rotary Motors



Direct Drive Linear Motors



Linear Positioners



Multi-Axis Precision Tables

# Scalable Programmability

The AKD™ Servo Drive\* delivers cutting-edge technology and performance with one of the most compact footprints in the industry. The AKD is flexible enough for virtually any application.

From one axis that is as simple as analog torque-and-velocity, to 128 axes of fully programmable synchronized motion, AKD is the answer.

## Benefits

- Optimized performance in seconds
- Greater throughput and accuracy
- Easy-to-use Graphical User Interface (GUI) for faster commissioning and troubleshooting
- Flexible and scalable to meet any application



## Base AKD ("B" Option)

- Controlled by analog torque-and-velocity commands
- Includes electronic gearing via X9 connector
- Includes access to 11 digital I/O and 2 analog I/O on base drive
- Includes 2 high-speed digital inputs
- Expandable to 31 digital I/O and 4 analog I/O



## Motion Tasking ("P" Option)

- Adds simple point-and-click indexing to base drive
- Provides user with pre-programmed options
- Guides novice user through simplified steps to create indexing moves
- Includes access to 11 digital I/O and 2 analog I/O on base drive
- Includes 2 high-speed digital inputs
- Expandable to 31 digital I/O and 4 analog I/O
- Same package size as base drive

# Basic Operation



# SUITE CAPABILITIES



Optional HMI

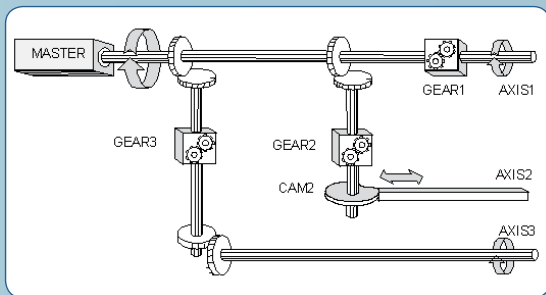


AKD Master

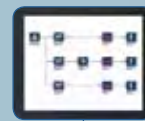
AKD Slaves

## Kollmorgen Automation Suite Programmable Multi-Axis Master

- True synchronized-path control of up to 4 axes
- Sets new standards for precision and optimizes nearly any application
- Easily manages remote I/O via EtherCAT® in addition to all drives' I/O
- Pipe Network – program sophisticated camming and gearing applications in a matter of minutes
- PLCopen for motion programming
- Adds only 30 millimeters to width in the master drives below 12 Amps; same size as larger base drives
- Includes 11 digital I/O and 2 analog I/O per axis
- Includes 2 high-speed digital inputs per axis



Using the exclusive Pipe Network™ provides a one-to-one translation of a mechanical system into a logical world.



Automation Controller



AKD Slaves

## Kollmorgen Automation Suite Programmable Automation Controller (PAC)

- Capable of controlling up to 128 axes using a PAC and EtherCAT-enabled base AKD
- Easily manages remote I/O via EtherCAT in addition to all drives' I/O
- Sets new standards for precision and optimizes nearly any application
- Pipe Network – program sophisticated camming and gearing applications in a matter of minutes
- PLCopen for motion programming
- Includes 11 digital I/O and 2 analog I/O per axis
- Includes 2 high-speed digital inputs per axis

IEC 61131-3 with five languages for process programming (soft PLC)

Choice of PLCopen or Kollmorgen *exclusive* Pipe Network for motion programming



# Multi-Axis Programming

## 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](mailto:contactus@kollmorgen.com) or visit [www.kollmorgen.com](http://www.kollmorgen.com) for a global contact list.**

- Application Centers
- Global Design & Manufacturing
- Global Manufacturing



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