KOLLMORGEN ®

Because Motion Matters™

Get the Versatility You Need to Build an Optimized Machine.

Announcing the New Kollmorgen AKD™ Family of Drives.

The AKD Servo Drive* delivers cutting-edge technology and performance with one of the most compact footprints in the industry. These feature-rich drives provide a solution for nearly any application, from basic torque-and-velocity applications, to indexing, to multi-axis programmable motion with embedded Kollmorgen Automation Suite™. The versatile AKD sets the standard for power density and performance.

Micron™ Gearheads

AKM™ Servomotors

Cartridge Direct Drive Rotary™ Motors

Housed Direct Drive Rotary Motors

Best-in-Class Components

AKD works seamlessly with Kollmorgen motors and positioners–well-known for quality, reliability, and performance.

Direct Drive Linear Motors

Linear Positioners
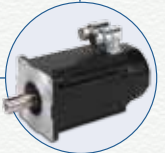
Kollmorgen Automation Suite

AKD can be embedded with our innovative Automation Suite for high-performance single- and multi-axis systems. Kollmorgen Automation Suite offers full IEC 61131-3 machine control with tightly integrated motion control capabilities, as well as our exclusive Pipe Network™ programming environment.
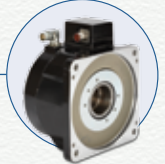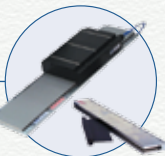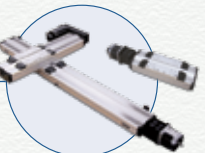
Multi-Axis Precision Tables

* Patents pending.

Powerful Performance. Effortless Flexibility.
Simple Integration.

AKD is specifically designed with the versatility, communications, and power you need to expand machine performance and increase integration speeds. Motor set-up is plug-and-play and multiple Ethernet connectivity options provide both open and closed protocols. Online troubleshooting and data verification enable faster, bug-proof programming. And a broad power range in a smaller, compact design allows you to use these robust drives with a single interface.

Easy to Use

- Plug-and-play compatibility with Kollmorgen motors
- Graphical User Interface (GUI) with intuitive icons and screen flow makes navigation, set-up, and programming quick and easy
- Digital signal processor control supports reliable, repeatable steps
- Screw terminal connectors on I/O allow for fast and easy installation. Optically-isolated I/O reduces noise, and eliminates need for additional hardware

Fast

- Accommodates changing load conditions immediately. Current loop updates in 0.67 μs. Velocity and position loops lead the market at 62.5 μs and 125 μs, respectively
- Optimizes efficiency at the click of a button with auto-tuning and wizard-based tuning. Guided manual tuning also standard
- Fast data acquisition with PC-compatible TCP/IP Ethernet service channel
- Real-time performance feedback

Flexible

- Supports a variety of feedback devices—Smart Feedback Device (SFD), EnDat2.2, 01, BiSS, Analog Sine/Cos encoder, incremental encoder, HIPERFACE®, and resolver
- No additional hardware needed for additional programming intelligence
- Multiple bus choices for system optimization, including EtherCAT®, SynqNet®, Modbus/TCP, and CANopen®
- Common interface and hardware for 0.5 kW to 64 kW
- SIL-qualified, over-voltage, current, and temperature detection provided for added dependability
- Option cards that increase available I/O, add NVRAM and processing power providing multi-axis machine control capability

General Specifications

120 / 240 Vac 1 & 3Ø (85-265 V)	Continuous Current (Arms)	Peak Current (Arms)	Drive Continuous Output Power (watts)	H mm (inches)	W mm (inches)	D mm (inches)	Depth with Cable Bend Radius mm (inches)
AKD-■00306	3	9	1100	168 (6.61)	57 (2.24)	153 (6.02)	184 (7.24)
AKD-■00606	6	18	2000	168 (6.61)	57 (2.24)	153 (6.02)	184 (7.24)
AKD-■01206	12	30	4000	195 (7.68)	76 (2.99)	186 (7.32)	215 (8.46)
AKD-■02406	24	48	8000	250 (9.84)	100 (3.94)	230 (9.06)	265 (10.43)

480 Vac 3Ø (187-528 V)	Continuous Current (Arms)	Peak Current (Arms)	Drive Continuous Output Power (watts)	H mm (inches)	W mm (inches)	D mm (inches)	Depth with Cable Bend Radius mm (inches)
AKD-■00307	3	9	2000	256 (10.08)	70 (2.76)	186 (7.32)	221 (8.70)
AKD-■00607	6	18	4000	256 (10.08)	70 (2.76)	186 (7.32)	221 (8.70)
AKD-■01207	12	30	8000	256 (10.08)	70 (2.76)	186 (7.32)	221 (8.70)
AKD-■02407	24	48	16,000	310 (12.20)	105 (4.13)	229 (9.02)	264 (10.39)
AKD-■04807	48	96	32,000	*Coming in 2010*			
AKD-■09607	96	192	64,000	*Coming in 2010*			