

Success Story

Candy Production is Transformed with a Proven Cost-Effective Motion Control Solution

Combining AKD® PDMM with KBM™ Significantly Simplifies the Manufacturing Process and Reduces Costs

The AKD PDMM servo drive and KBM frameless motor makes up the perfect solution that enable high-performance motion in a cost effective package.

Challenge

The customer was redesigning their machine in order to accompany a different packaging style for their product. A major challenge for the customer was to reduce the bill of materials and manufacturing cycle time.

Solution

The [AKD PDMM](#) with built-in multi-axis controller and [KBM frameless motor](#) from Kollmorgen combine performance with simplicity to help the machine builder achieve their goals.

The AKD PDMM is a multi-axis controller that has a built-in AKD servo drive, which can control up to 7 or more AKD drives. Because the AKD PDMM drive incorporates multiple high-performance axes, complete I/O control



and an HMI interface, there was no need for a separate PLC or PAC. The AKD PDMM simplified the candy machine and shortened development cycles because of its user-friendly software. The AKD PDMM delivered a way to truly differentiate the candy machine for optimal performance.

The KBM frameless motor also performs at the highest level by delivering higher throughput, lower noise and longer life than a standard motor. It eliminated gearboxes, timing belts, and pulleys to improve system efficiency by at least 10%. As a result the decreased parts count increased the candy machine's reliability. ***This contributed to a reduction in machine assembly time from 3 working days to 4 hours.*** The KBM frameless motor met the required performance while allowing for a much simpler machine.

KOLLMORGEN®

Because Motion Matters™

FAST FACTS

Challenge:

Simplify the candy machine without sacrificing performance

Solution:

Couple the AKD® PDMM with the KBM™ series motor to reduce the bill of materials

Measurable Benefits:

- AKD PDMM controls up to 7 or more AKD drives
- 10% greater efficiency with KBM motor series
- Reduction in parts count increased system reliability
- Assembly time reduced from 3 working days to 4 hours

Other features:

- High- performance motion
- Complete I/O control
- HMI interface
- Simplified programming

Have Similar Challenges and Want to See Real Results?

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About Kollmorgen

Kollmorgen is a leading provider of motion systems and components for machine builders around the globe, with over 70 years of motion control design and application expertise. Through world-class knowledge in motion, industry-leading quality and deep expertise in linking and integrating standard and custom products, Kollmorgen delivers breakthrough solutions unmatched in performance, reliability and ease-of-use, giving machine builders an irrefutable marketplace advantage.

For more information, visit kollmorgen.com, email support@kollmorgen.com, or call 540-633-3545.