

# Success Story

## Expand Machine Functionality with Integrated Direct Drive Technology and Reduce Parts Count

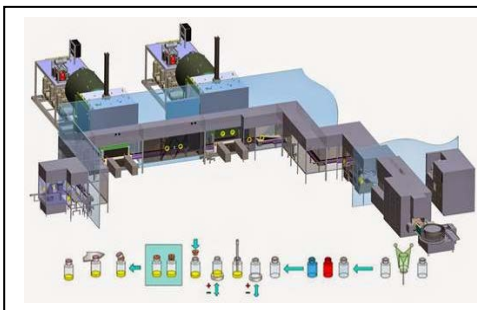
China's leading manufacturer of pharmaceutical packaging machines has partnered with Kollmorgen since 2012 to satisfy their motion control requirements. Among their successful products are a series of integrated machines that fill glass vials with liquid pharmaceuticals for use in intravenous drips. Other tasks involve filling and sealing the vials, freeze drying the contents, and packaging them for shipment to hospitals and clinics. They currently use Kollmorgen's [AKM™ motors](#) and [S700 drives](#) to control the door that operates the freeze drying section of their machines.

**ISSUE:** The manufacturer wanted to expand the functionality of their machine to include a vision system to inspect the cleanliness of the vials. One of their customers had traditionally relied on human operators at the end of the line to visually inspect the vials for dust and other pollutants. They were also facing competition due to the increased marketplace use of integrated visual inspection systems paired with gearbox platforms.

**SOLUTION:** A Kollmorgen cross-functional team of American and Chinese engineers developed a proposal for the manufacturer that incorporated the use of our industry leading [direct drive technology](#) to integrate an automated visual inspection process into their line of pharmaceutical packaging machines. It is a two axis system that controls both the rotation of bottles as well as the camera that performs the actual inspection. The system that uses a large frame [KBM™](#) has provided significant benefit to the manufacturer and their customers. By removing the gearbox, Kollmorgen's solution has enabled a much quieter machine, increased throughput, and even contributed to an overall cleaner environment.



The [KBM™ series](#) offers high performance, long life and simple installation in a motor kit that can be embedded directly in your machine design.



The manufacturer reports they appreciate the value the Kollmorgen solution delivers in meeting their customer's requirements, and place significant emphasis on our ability to enable them to establish clear differentiation versus their competitors.

**KOLLMORGEN**®

*Because Motion Matters™*

### FAST FACTS

#### Challenge:

Expand the functionality of pharmaceutical packaging machines to support new requirements that demand a reliable vision system.

#### Solution:

Robust direct drive technology using [KBM™](#) that integrates an automated visual inspection process into existing machines without a gearbox platform.

#### Benefits:

- High-performance motion with increased throughput
- Lower operational costs
- Quieter machine and overall cleaner environment

#### Other Features:

- Direct load connection not only eliminates maintenance of gearboxes but also belts or pulleys and overall part counts
- Zero backlash and compliance provides more responsive system performance
- Eliminates coupling devices, reducing overall machine size

#### 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](http://kollmorgen.com), email [support@kollmorgen.com](mailto:support@kollmorgen.com), or call 540-633-3545.