

THE POWERED HUB

by One Motion™



 **one motion**

www.onemotion.tech | (479) 358-1173

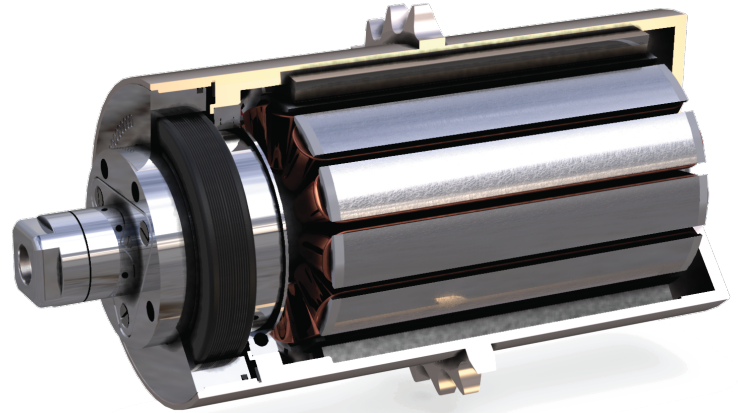


INTRODUCTION

A member of the mag-drive family, the hub is powered using magnetic direct drive technology. A large array of specially shaped magnets are lined inside the shell. Rotary motion is then created by applying electromagnetic force to magnets.

This simple design eliminates the need for a motor and gearbox. With no external drivetrain, the hub offers a hygienic drive solution that is free of crevices where food debris and bacteria hide.

- Mounted on 1 Side
- Custom Shell Profile to Fit Any Belt
- Cantilevered Design for Easy Belt Swap
- IP69k Washdown Safe



HIGHLY EFFICIENT

In a conventional motor/gearbox system, electrical energy is wasted as it passes through each rotating component before reaching the final mover.

The powered hub has only one transfer of energy. Electrical power is used for direct mechanical rotation (watts to torque).

ADDED PERFORMANCE

Powered hubs provide quick acceleration and constant torque over a wide speed range. This equates to precise velocity control, even at slower speeds.

CUSTOM DESIGNED TO FIT APPLICATION USE

Where conventional solutions require a sizable investment for custom design, an advantage of the mag-drive is the cost-effective and easy integration into existing machinery.

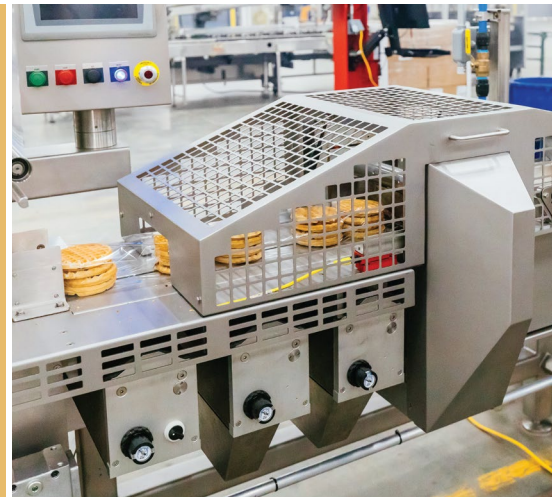
One Motion engineers design, develop and build innovation into packaging automation products. With our “First Time Right” methodology, our accomplished engineers move from concept to prototype in a timely manner.

The powered hub highlights many of the different application uses for mag-drives:

FLOW WRAPPING

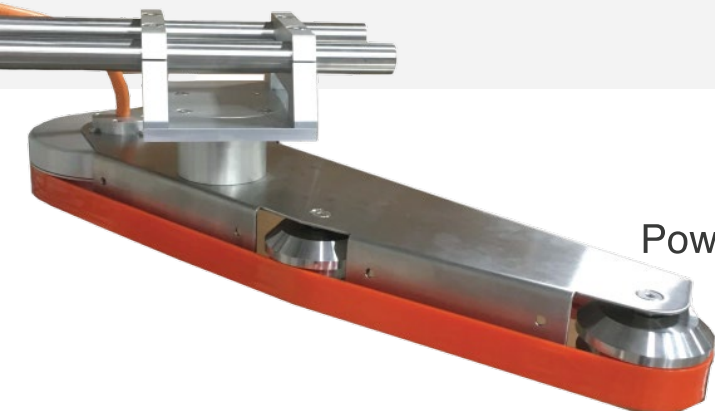
Film Registration/End Seal (Final Knife)

The absence of lubricants means no threat of an oil leak. That combined with the compact, easy to clean design makes the powered hub ideal for use in flow wrapping applications where food safety is of utmost importance. Displayed is the Sapphire by AES. The hub is used for the film tree, fin-seal and end seal.



SMART INFEEED

Whether feeding product into a flow wrapper, cartoner, or other, the powered hub can quickly & automatically reposition randomly arriving product into a single file. Product can then be equally spaced and phased into the lug conveyor section.



SIDE BELT

Powered hubs present a simple solution for product chicane, diverge, and/or aligning systems. The gearless design means no motor or gearbox needs to be mounted above the side belt.

This not only provides a smaller footprint, but makes it ideal in food packaging applications.

ROTARY TABLE

An efficient, reliable and easy to clean method for powering a rotary table, the powered hub provides direct rotation to the table. Pictured is the rotary table by Northwind Inc.



FANS

The hub makes it easy to adjust speeds and is much more efficient than conventional methods of powering fans.

The powered hub helps illustrate how the mag-drive has revolutionized rotary motion. Regardless of application, the mag-drive provides the highest performing, reliable and efficient way of accomplishing rotary motion.

In instances where food safety is a priority, the hygienic design and easy washdown capabilities make it the obvious choice.

one motion

To learn more about the powered hub and the mag-drive technology, visit:

onemotion.tech

