

APPLICATION SOLUTION: Nitrogen Injection



Product Family: Electric
Product Used: ERD15
Product Type: Modified standard

Application Requirements:

Stroke: 12 in (305 mm)
Thrust: 150 lbf (667 N)

Application Description:

Operating a modified atmosphere packaging system for food preservation with multiple positions to handle various package sizes.

Challenge:

A modified atmosphere packaging system introduces nitrogen into the container with various flow rates to push the ambient air out. Nuts are the primary product of this food packaging company. Multiple position points to accommodate different size packages and longer term durability were key drivers to replace the existing pneumatic cylinders with electric actuators. The solution needed to be economical and reliable.

Tolomatic Solution:

An ERD15 was selected for the application using a custom motor, gearhead and brake for power loss all contained in a special longer enclosure. The actuator was not in a washdown environment and the enclosure was chosen more for aesthetics fitting the nature of the food handling process.

Customer Benefit:

- An actuator designed for food process environments was key.
- An economical and improved design.
- Versatility of the actuator allows for quick change overs for different package sizes on the line.