

**APPLICATION SOLUTION: Semi-Solid Viscous Filling**



**Product Family:** Electric  
**Product Used:** ERD20 Rod-Style Actuator  
(Stainless with IP69K seal)  
**Product Type:** Standard

**Application Requirements:**  
**Stroke (varies):** 8 in (203mm)  
**Speed:** 6 in/sec (152 mm/sec)  
**Force (pumping):** 150 lbf (.66 kN)

**Application Description:**

Filling equipment with 8 variable dispensing heads integrated into production line.

**Challenge:**

A producer of frozen food entrées had previously used a pneumatic version of filling equipment, however they required faster fill speed to increase throughput and improve fill accuracy to eliminate product overfills. The producer challenged the manufacturer to build an electric filling system, with 8 independent variable dispensing heads, that would integrate into a production line with conveying, checkweighing and heatsealing systems. Optimizing changeover time was another requirement to accommodate various recipes and container sizes.

**Tolomatic Solution:**

ERD20 electric rod style screw drive actuators were selected to drive each of the 8 dispensing heads. Stainless steel construction combined with an IP69K seal met the hygienic challenges of clean-in-place wash-down for food safety. Tolomatic's Your Motor Here® motor mounting program provided seamless compatibility with customer specified Allen Bradley motors.

**Customer Benefit:**

- Actuators provided variable stroke lengths with control over acceleration/deceleration, resulting in decreased overflow, waste, and non-conforming product.
- Replacing hand cranks resulted in faster changeovers and eliminated human error.
- Complete compatibility with chosen motors, drives, controls, and other integrated equipment.
- Increased speed, throughput, and production yield.