

## **Injection Molding Company increases Hot Runner System Accuracy and Control by Replacing Hydraulic and Pneumatic Cylinders with Integrated Electric Actuators.**

### **CUSTOMER**

This German company produces innovative hot runner solutions for the injection molding industry that eliminates energy waste and provides many benefits in the production of plastic parts.

### **APPLICATION**

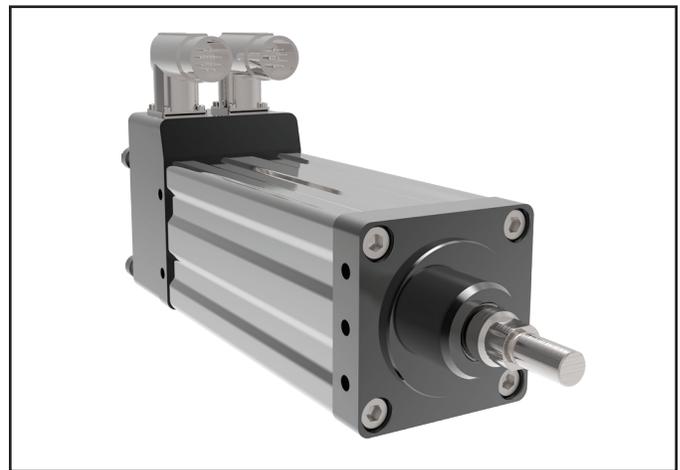
Hot runner systems utilize needle valves to control the flow of liquid plastic as it is injected into a mold.

### **CUSTOMER CHALLENGE**

The customer was looking to improve the control, accuracy and cleanliness of their hot runner system so it could be applied in food processing and clean room applications. The customer also wanted to eliminate the risk of fire posed by the inevitable oil leaks from the hydraulic cylinders.

### **SOLUTION**

The Exlar® GTX integrated motor / actuators were the only solution considered by the customer that met all of the application requirements including speed, force, package size, efficiency, adjustability, programmability, accuracy, system stiffness, cleanliness and a food grade option.



*Exlar's GTX Series integrated motor/actuator*

### **RESULTS**

Exlar's integrated electric motor / actuator solution provided significantly more control and higher accuracy resulting in a significant reduction in scrap and increase in overall system efficiency. In addition, converting to an electric actuator solution completely eliminated the risk of fire from hydraulic oil.