



# Intelligent Robot Solutions



## Application: Packaging

**Industry:** Food & Beverage

**Company Name:** Packaging Company

**Products Used:** FANUC M-420iA



Robots help solve ergonomic issues.

### Challenges:

There is a growing demand for advanced robotic packing systems that keep pace with high speed production lines.

### Solution:

Until recently, robotic packing approaches were considered too slow to keep pace with high-speed production lines and the pace set by less flexible packing equipment.

Recently, much of that has changed. FANUC Robotics offers several robots that, depending on the product size and payload, are comparable in speed to dedicated packing devices but offer improved reliability and the advantages of flexibility.

Consider systems that incorporate robotic packing manipulators with vision-based, line tracking and part location features. Not only can they service continuously moving lines, but they can also inspect for product features, orientation and quality.

Use of a FANUC Robotics' vision system combined with other sensors in a fully automated packing system can help to assure more consistent product quality than either manual packing systems or traditional packing automation.

In addition to the increased need for automated product inspection to improve quality and reduce the chance of tampering, robotic automation can eliminate many of the workplace hazards associated with repetitive manual operations (i.e., carpal tunnel syndrome and cumulative trauma disorders) and also eliminate the need for personnel to work in difficult environments such as freezers.

## **Solution** *(cont.)*

The keys to making these systems productive are: (1) maximizing system reliability, (2) understanding the overall processes being performed and (3) integrating both process control and monitoring into your existing plant-wide production system.

To achieve maximum reliability, our process engineers start with standard products and combine them with whatever custom-engineered components are necessary to tie the system together and make it work effectively with the balance of your operation.