



Intelligent Robot Solutions



Application: Packaging

Industry: Plastics

Company Name: Plastic Bottle Manufacturer

Products Used: FANUC M-420iA



Reliable, proven container packing.

Challenges:

A plastic bottle manufacturer was challenged with automating its container case packing operation to meet customer requirements for speed and flexibility. The customer was looking for a system that would maximize profits by lowering handling costs and operating expense while increasing flexibility.

Solution:

This company relied on FANUC Robotics who recognized that reliable, proven container packing automation is key to improving plant productivity. This system quickly paid for itself while maximizing flexibility, rapid changeover and system mobility. Bottles are oriented (when required), picked and automatically packed. Tier sheets are individually placed and cases are transferred in and out of the work cell, 24 hours a day in continuous operation. From concept to design, installation, training and service, FANUC Robotics had full responsibility for this process solution.

Process Advantages

- Direct labor savings and improved personnel scheduling and utilization
- Reduction in worker's compensation costs related to repetitive motion injuries
- Flexibility for quick and easy changes in production methods, run sizes and location of case packing operation
- Improves quality and reduces scrap by eliminating product damage caused by manual handling
- Integration of entire system improves manufacturing process control and management information

Solution *(cont.)*

System Specifications

- Automatically orients and packs bottles to cases in continuous operation
- Reduces handling costs per case by nearly 40%
- Processes containers and tier sheets of varying size, shape and material
- Uses standard tooling and system components
- Includes mobile system base for flexible access to production lines
- Standard system software with user-friendly interface