

Keeping manufacturers competitive with quality robotic solutions



Ergopack® With Robotic Pick and Place Case Packing

Today, robots are being used more frequently for case packing and palletizing to increase throughput and production, gain benefits of advanced vision technology, and realize cost savings.

Motion Controls Robotics, in partnership with Combi Packaging Systems, offers the flexibility of ergonomic hand packing, and automatic robotic pick and place case packing by integrating Fanuc robots with a new or existing Ergopack® hand packing stations.

Reasons for implementing robots into a manual case packing operation can include:

- **Efficiency** – performs tasks that are difficult for humans
- **Safety** – completes tasks that are unsafe for humans
- **Compliance with emerging regulations** – to verify lot and expiration dates; serialization numbers
- **Flexibility** – meets retail packaging variations including variable pack counts, variety packs, retail ready packages
- **Cost savings** – replaces high wage labor



FANUC LR Mate Robot

Robotic Packing System Includes

- Base hand packing system including case erector, hand packing station, product infeed conveyor and case sealed
- 6 axis LR Mate Robot
- Food grade option
- Fixed robot base, anchored to the floor
- End-of-arm tooling to suit requirements
- Integrated FANUC iRVision system
- System wiring and controls
- Operator pendant or optional HMI display for recipe management
- Perimeter guarding with safety interlocks on doors
- Programming for Robot, PLC/PMC, HMI and Vision
- Complete documentation in electronic format
- On-site training and support
- Compliance with all applicable robotic safety standards including latest version of RIA R15.06 specifications

Ergopack® Advances in vision sensor technology and FANUC's iR Vision allow for inexpensive 100% quality testing, higher pick rates, picking from a moving conveyor belt, identification of part orientation and many other beneficial functions

Sequence of Operation

1. Product enters the Ergopack® via a variable speed product conveyor.
2. The robot uses vision to locate the moving product to be picked and placed into an erected case.
3. The robot pick, orients, and places product from a continuously moving incoming conveyor into an awaiting case on the outgoing case conveyor.
4. Once the pack is complete, the case exits the fill station and travels to an automatic top and bottom case sealer.
5. The robot is mounted behind the product conveyor, which allows manual operation of the packing system at the customer's discretion.
6. The front of the packing system is guarded by doors with safety interlocks to the robot.



Watch the
Ergopack®
in action.



The Ergopack® case packing system includes the flexibility to park the robot while hand packing small runs of