

# ERGOBOT

ERGOPACK® WITH ROBOTIC CASE PACKING



Today robots are being used more frequently for case packing and palletizing because of the increased throughput, vision and cost savings today's robotic technology offers.

Robots can quickly lift large, heavy items and perform high speed repetitive tasks without risk of physical injury. Irregular shaped and smaller items at slower production speeds are still better suited for manual case packing.

Combi Packaging Systems offers the flexibility of ergonomic hand packing and automatic robotic pick and place case packing with the integration of a Fanuc robot to a new or existing Ergopack® hand packing station.

Reasons for implementing robots can include:

- Efficiency - performing tasks that are difficult for humans
- Safety - completing tasks that are unsafe for humans
- Complying with emerging regulations - verifying lot and expiration dates; serialization numbers
- Meeting retail packaging variations - varying pack counts, variety packs, retail ready packages
- Cost savings - placed in a high wage environment

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## FANUC ROBOT:

### SEQUENCE OF OPERATION

Cases are automatically erected and advance to the pack station. Product enters the Ergopack on a variable speed product conveyor where it is detected by an optional vision system. The product is picked, oriented, and placed into the staged, erected case. Once the case is packed, the filled case enters an automatic case sealer where the top flaps are closed and the case is sealed on the top and bottom with pressure sensitive tape. The Ergobot system is guarded by interlocking doors.

The robot is mounted behind the product infeed conveyor, which allows the robot to be parked and the Ergopack® system to be manually operated at the customer's discretion.

### ROBOTIC PACKING SYSTEM INCLUDES:

- Combi Ergopack® hand packing system including case erector, hand packing station, product infeed conveyor and case sealer
- 6 axis LR Mate or M10 Robot spec'd to the application including design/detail, fabrication, assembly and electrical software
- Fixed robot base that will be anchored to the floor
- Adjustable End of Arm Tooling for a wide range of product sizes and pick positions
- Integrated iRVision system, optional per application
- System wiring and controls
- Operator pendant for recipe management
- Interlocking perimeter guarding
- Mechanical and electrical engineering design including layout and detailing of cell system
- Robot programming which may include PLC/PMC; HMI; and Vision Programming
- Setup, runoff, testing and debugging
- On-site Training and Support

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Advances in vision sensor technology and end-of-arm tooling has evolved into more nimble product handling for case packing.

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